

RFP Response

RFP-DH-1335 Enterprise Content Management System

For

The Metropolitan Water District of Southern California





February 28, 2023

Mr. David Hsi The Metropolitan Water District of Southern California 700 North Alameda St. Los Angeles, CA 90012

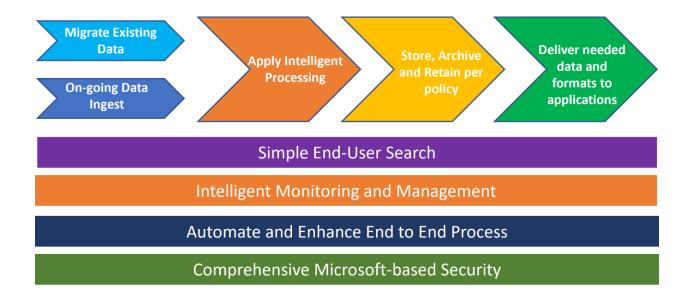
Re: Request for Proposal RFP-DH-1335, Enterprise Content Management System

Dear Mr. Hsi,

NathCorp and our Strategic Partners are pleased to present our response to The Metropolitan Water District of Southern California (Metropolitan) above referenced Request for Proposal.

The combined strengths of our organizations place us in a unique and strong position to deliver a highly functional and reliable Enterprise Content Management (ECM) solution based on Best of Breed, highly rated technologies.

The NathCorp ECM solution delivers a complete and fully secure environment, enabling Metropolitan to migrate data; manage redundant, obsolete and trivial data; ingest and process new data and apply intelligent processing for meta data creation and categorization, while simplifying management; and allow for simple, robust end-user search across the entire enterprise.



Our solution delivers:

- Superior functionality The foundation of our IDM solution uses Microsoft SharePoint Online, Microsoft Syntex and various Microsoft Azure components to deliver the required cloud-based functionality. We have also included Best of Breed applications where applicable to facilitate data migration, data archive, email saving to SharePoint, and interactive training.
- Enterprise-level design and operations Resilient enterprise-grade solutions require comprehensive monitoring and management. Our solution includes Microsoft Azure monitoring components to ensure the on-going health of the solution, using native AI capabilities to promote "self-healing" wherever possible.
- **High levels of Security** we leverage a variety of components of the highly rated Microsoft security suite to ensure appropriate user permissions and access, provide the necessary data classification and governance, and deliver on-going monitoring, alerting and remediation of threats to the overall environment. Our security design builds upon and leverages the existing Metropolitan Microsoft-based identity and security configurations.

- Open architecture the core of our solution integrates standard, off the shelf Microsoft components to deliver the required functionality, avoiding "proprietary lock-in" typically associated with purchased applications. This approach provides the highest possible levels of open design to Metropolitan allowing flexible and low-cost on-going support, and the ability to easily modify the solution as business requirements and regulations change.
- **Extensible and modular design** discrete solution components can be leveraged to address business problems efficiently without the need to take a "monolithic" approach requiring the use of all solution components.

Our resource and timeline modeling for solution delivery suggests this is a multi-year, multimillion-dollar project. Accordingly, we have included several key Strategic Partners to ensure successful solution delivery.

Resua.io – is a certified Disabled Veteran Business Enterprise (DVBE). Our partnership with them allows us to meet or exceed the 25% participation goal.

Crayon – will assist in the technical delivery of several of the Key Tasks set out in our response. They are a \$2.5 billion publicly traded company with deep Microsoft and Enterprise Content expertise.

Brainstorm – creates innovative personalized software and content for user training, driving high levels of user adoption and simplifying user transition related to a major system implementation or application change.

ProvenTeq – will provide the software tools to assist in migration of existing data to the new ECM solution.

AvePoint, MacroView— will provide the archiving (AvePoint), and the saving email to SharePoint (MacroView) function and data migration (ProvenTeq) respectively.

We believe our solution delivers high value to Metropolitan, leverages key new and advanced technologies for efficiency, and provides an extensible and modular platform to change and grow as business needs dictate. Our solution takes a non-traditional approach to document imaging and applies an "Intelligent Document Processing" framework, resulting in significantly lower implementation and operating costs, and greater functionality while delivering high business value to Metropolitan.

We appreciate the opportunity to provide a solution for Metropolitan's ECM requirements.

For questions or comments on the RFQ, please contact the undersigned.

Sincerely,

Simon Palmer Managing Director Mobile: 714/615-6051

Email: simon.palmer@nathcorp.com

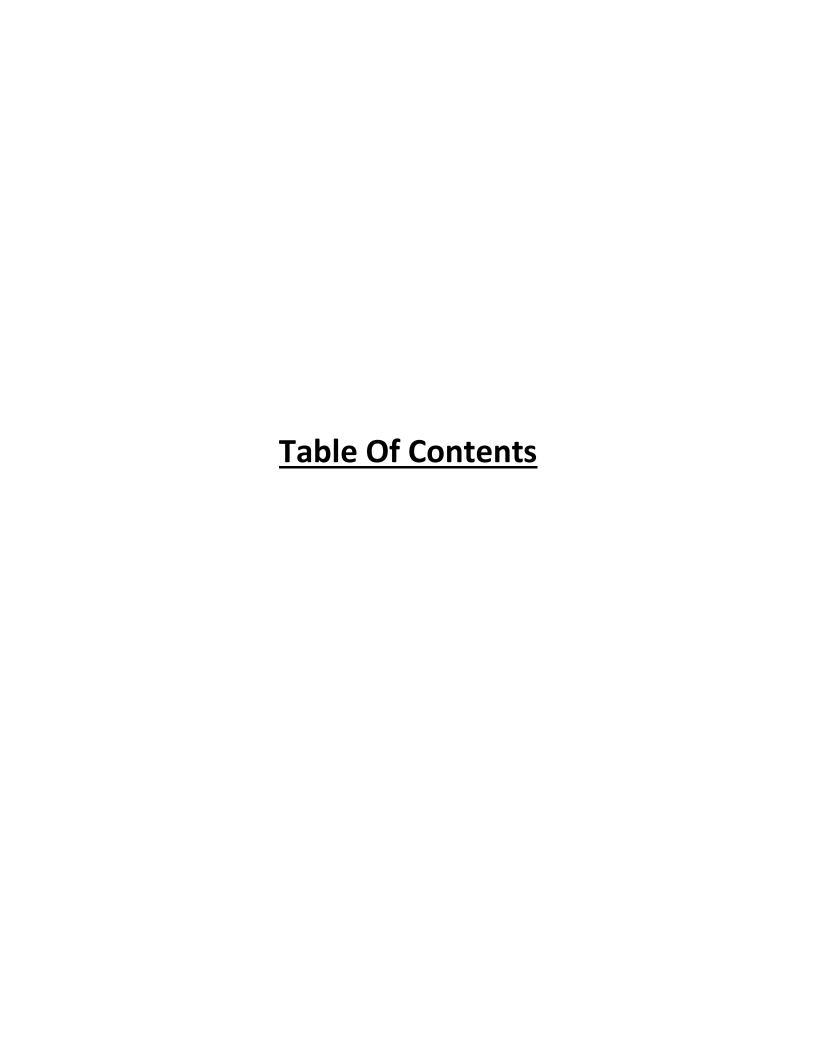


Table of Contents

Minimum Qualifications		1
Firm Qualifications – Criteria 1		3
History		4
Our Practices		
Our Clients		
Our Delivery Model		
Past Performance – Criteria 2		8
Key Personnel – Criteria 3		14
Program Management Organization Chart		15
Roles and Responsibilities		
Sample Curriculum Vitae (CVs)		
Approach – Criteria 4		39
Purpose / Background		
Proposed Enterprise Content Management Solution		40
Project Approach		
Tasks and Activities		
Project Deliverables	49	
General Project Assumptions	49	
Project Out of Scope	49	
Proposed Estimated Timeline	<u>50</u>	
Attachment H		51
Attachment I		<u>54</u>
Business Outreach – Criteria 6		68
Attachment A	69	
Contact Information		70
Attachment E	71	
Compliance Form		73
Attachment F	74	
Conflict of Interest		75
Attachment G	76	

Minimum Qualifications

Minimum Qualifications

NathCorp and our strategic partners collectively represent over 100 years of technology experience in our respective fields of expertise. We are compliant with and exceed both listed minimum requirements as listed below as well as demonstrated in Attachments H, I, "Firm Qualifications" and other sections of this proposal.

Principals/key personnel, including sub-consultants, have been established providers of the type of services required by the scope of services for at least five (5) years and NathCorp was established in 2007 and exceeds 5 years in providing the type of services required by the scope of services.

Contractor and Location	Туре	Services provided	Date Est.	Notes
NathCorp, Irvine CA (SBE, RBE)	Prime	All other services	2007	Founded by Raj Nath former Microsoft Windows architect of Active Directory. Nathcorp Consultants average 12yrs Experience in technologies related to this proposal. Nathcorp currently holds 13 MS Gold Competencies + Microsoft CSPP Member.
Resua.io, Anaheim, CA (SBE, DVBE)	Sub- consultant	Program Management and Implementation Services	2022	Founded by David Hook, 13 years' experience in AI/ML @ the Dept. of Veterans Affairs
Crayon, Dallas, TX	Sub- consultant	Implementation Services	2002	Microsoft Global AI Partner of the Year 2020
Brainstorm, American Fork, UT	Sub- consultant	End user training program	1995	Globally recognized award-winning training services company with a world-class SaaS platform
AvePoint, Jersey City, NJ	Sub- consultant	Data Archiving Application	2001	Provider of the most advanced platform to optimize SaaS operations and secure collaboration. More than 9 million Current cloud users on their solutions via more than 100 cloud marketplaces
MacroView, Sydney, Australia	Sub- consultant	Email Saving Application	1994	Global winner of the Innovative Search Solutions Contest and the National Winner of the Microsoft Office Smart Client Solutions Challenge
ProvenTeq, Austin, TX	Sub- consultant	Data Migration Application	2007	Experts in Intelligent Content Management and Cloud Office Solutions. Microsoft CSPP Member and currently holds 4 MS Gold Competencies.

Firm Qualifications (Criteria One)

Firm Qualifications

Our History

Established in 2007, NathCorp is a boutique consultancy focused on implementation, operations management and application development across the Microsoft Technology stack. We hold a total of thirteen Microsoft Gold competencies illustrated by the graphic below.

Additionally, we are a member of the Microsoft Content Services Provider Program (CSPP). Membership in this program is by invitation only from Microsoft and comprises a small group of elite Partners focused on Electronic Content Management using Syntex, Viva Topics, Purview, Microsoft Search and Graph, as well as other important Microsoft content management technologies.



Our staff comprises US-based and offshore employees with an average of 12 years' experience in Microsoft technologies, and over 1,000 combined individual certifications across the team. Many of our employees are former Microsoft team members and have deep experience in managing and delivering large, global, multimillion dollar consulting projects.

Our founder, Raj Nath, is a former Microsoft engineer and the original architect of Active Directory. Mr. Nath leads with a focus on deep technical knowledge and skills and prides himself on keeping the team skilled in cutting-edge technology. Our technical team is organized around various Centers of Excellence (COE) to focus resources on key technologies, explore new and innovative uses of technology, and promote company-wide knowledge and understanding of the technology.

The COEs also focus on aligning technology with business Use Cases and conduct Proofs of Concept and Pilots to demonstrate how new and innovative technology can be applied to solve client business problems.

Our Practices

We deliver our expertise to the marketplace via six consulting practices as follows.



M365 and Security

Microsoft/Office 365

- Win 365 and AVD
- All Services
- Graph API
- Power Automate
- Deployment / Migration
 - Exchange Online
 - Teams
 - SharePoint Online
 - OneDrive
- M365 Governance Manager service
- SharePoint
- Microsoft Syntex IDP

Security

- M365 Defender (MDATP/Microsoft Security Center)
- Microsoft Defender for Cloud Apps and Identities (Cloud App Security)
- Microsoft Sentinel
- Web Application firewall
- Entra / MS Authenticator

Device Management

- MECM/Intune
- MDM / MAM
- Autopilot

Managed Services

Technologies Supported

- SCOM
- InTune
- Windows Server
- Active Directory
- SQL DB
- Patch management
- Server Administration
- SCCM
- Windows 10 / 11
- LINUX Oracle DB
- 0365
- Security

Services

- L1,2,3 Help Desk
- 24x7 global support
- **Escalation Management**

Directory Services

Identity/Security

- Azure Active Directory
- Azure ADDS
- Azure AD B2C, B2B
- Key Vault
- OAuth and SAML
- Managed identities for Azure Resources

Integration

- Data Factory
- Logic App
- PowerApps
- Azure update/Patch
- management
- Virtual machine scale sets

Application and Data Modernization

Developer Tools/DevOps

- Azure DevOps
- Azure DevTest Labs
- Test Automation

AI + Machine Learning

- Cognitive Services
- QnA maker
- Translator
- Azure ML

Data Analytics / Reporting

- Azure Data Explorer
- Azure Databricks
- Power BI Embedded Microsoft Graph
- Power Platform

Databases

- Azure cache for Redis
- Azure Cosmos DB
- Azure SQL / Tables

Cloud Transformation

Compute/Containers

- **Kubernetes Service**
- Function App
- Service Fabric Cluster
- Virtual Machines
- SQL Server on Virtual Machines
- Windows 365
- Azure virtual desktop
- Web App
- Web App for containers

Networking

- Application Gateway
- Load Balancing
- Virtual Network
- **VPN** Gateway

Storage

- Azure Storage
- Azure Data Lake Store Gen 2

Teams and Collaboration

Management

- **Teams Policies**
- Meeting policies
- Calling policies
- Phone numbers and EV

Teams Devices

Teams Meeting Room

SIP Devices Voice services

- Auto Attendant
- Call Queues

Reporting

- **CQD Reports**
- User Activity reporting
- Call Queue and Auto attendant reporting

Teams Tempo

Azure app measures sentiment based on Teams user activity

Our Clients

NathCorp clients are enterprise level clients across 5 verticals. Our average client has been with NathCorp for over 7 years, and we have performed multiple projects for each of these clients. We focus on developing long-term relationships with a focus on continued improvement and transparency; we understand and acknowledge we must, at all times, work to earn a client's trust – whether they be a new client or a 10-year client – using the values below to guide our daily behaviors.



The graphic below sets out a sampling of our clients by vertical.



The table below is a sampling of projects we deliver for our clients and demonstrates our ability to continue to provide value-based services to our clients.

Client	Projects	Approximate Revenues, Approximate Employee Count, Relationship Length
Publicly traded manufacturer of construction, agricultural and mining equipment	 Development of global (multi-lingual) dealer / farmer portal for delivery of machine health reports "on demand"; includes data analysis, data lake creation and management, development of portal APIs, Power BI report development and delivery 	 \$25 billion revenues 6,500 employees 1-year relationship

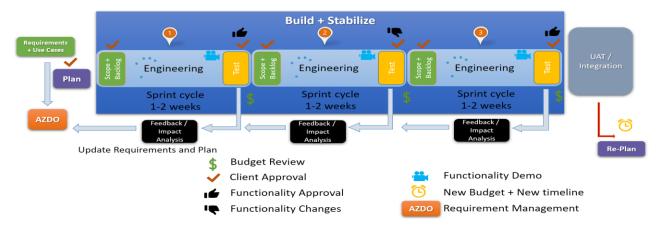
Client	Projects	Approximate Revenues, Approximate Employee Count, Relationship Length
Publicly traded medical device manufacturer	 Application packaging and distribution services for Windows Hyperion / Oracle financial application upgrades distribution 	\$5 billion revenues14,000 employees6-year relationship
Provider of e- library books	 Managed services for the entire Azure-based environment for e-library on demand program Architecture assistance, development and enhancement of e-library application 	 Private equity owned – do not disclose revenues 2,500 employees 12-year relationship
Large national insurance company	 Company-wide AD upgrade Company-wide SCOM upgrade Company-wide Teams implementation Company-wide migration of on-premise email to Exchange online 	 Privately held – do not disclose revenues 16,000 employees 6-year relationship

Our Delivery Model

Our Focus is Delivery Value, driven by the following tenets.

- Rapid demonstration of Value Add is vital we align delivery with customer expectations to quickly achieve an MVP early in the project.
- Every project is dynamic requirements, timeline, risks and priorities will continue to change during the project. Our "Value Loop" approach ensures we continuously monitor and adjust to project changes.
- **Projects succeed with transparency and communication** we partner with our clients to ensure there are "no surprises" at any time and ensure transparency with the use of tools such as Azure DevOps for task tracking, weekly burn down reporting, and weekly project status reporting along with ongoing risks or issues identification and monitoring.
- **Bad news does not age well** every project will experience challenges; these must be declared and quickly addressed with a remediation plan to ensure continued project progress.

The NathCorp Value loop model is shown below.



Record of Past Performance (Criteria Two)

Past Performance

The table below summarizes various projects delivered to clients over the last 2-3 years.

Client	Project
Western Digital	 Global AD upgrade Global SharePoint Online Platform build and roll out Global Workspace One replacement Windows Hello / Password-less Pilot Team Healthcheck Mail Healthcheck SCCM Managed services ADDS implementation
3M	 200+ application development and modernization projects Managed services (server administration) for approximately 400 Windows and LINUX servers
Hawaiian Airlines	 Implementation of "Electronic Flight Bag" (EFB) across entire aircraft fleet Managed services for 1,000+ pilots to support on-going EFB usage and updates \$15 million, 5-year project
CNHI	 Development of global (multi-lingual) dealer / farmer portal for delivery of machine health reports "on demand"; includes data analysis, data lake creation and management, development of portal APIs, Power BI report development and delivery
Edwards Lifesciences	Application packaging and distribution services for WindowsHyperion / Oracle financial application upgrades distribution
Bibliotheca	 Managed services for the entire Azure-based environment for e-library program Architecture assistance, development and enhancement of e-library application
Universal Music Group	 Global AD upgrade Replacement of Quest ARS application with custom-built application to receive user management requests from SNOW Managed services Tier 2 24x5 support for AD, email, and user management (ad/modify/delete, reset PW) Bitlocker implementation
Auto Club	 Company-wide AD upgrade Company-wide SCOM upgrade Company-wide Teams implementation Company-wide migration of on-premise email to Exchange online

The following may be contacted for reference on NathCorp services.

Hawaiian Airlines – Enterprise Content Management for Aircraft and Pilots

3375 Koapaka St, Suite G350, Honolulu, HI 96819

Ken Rewick – Vice President of Flight Operations (Retired)

Mobile: 808/228-9643

Email: ken.rewick@hawaiianair.com

Number of years NathCorp client – 7 years (2014 – 2021)

Hawaiian Airlines (HA) is the largest operator of commercial flights form the continental United States to Hawaii. They operate a fleet of approximately (60) aircraft and serve over (100) destinations worldwide.

NathCorp was contracted with Hawaiian to implement Electronic Flight Bag (EFB) Content Management as part of HA's eFlie program – a broader cockpit connectivity initiative. HA is the first airline in the world to have real-time, IP-based cockpit connectivity (via satellite) isolated completely from any passenger compartment network communications.

The overall goal of HA's EFB program was to eliminate the need for paper manuals to be carried by pilots and remove the duplicate manual set from each aircraft – this resulted in saving over \$1 million annually in fuel cost (achieved by removing approximately 400 pounds in weight from each flight), eliminating the need for resources to continually update manuals in each aircraft, and eliminating the need for pilots to be continually concerned about ensuring flight manuals were up to date – typically, flight manuals and flight communications are issued several times per week. All goals needed to be achieved while also ensuring 100% compliance with FAA regulations; HA was subject to inspection at any time by an FAA inspector and, if their manuals were found to be non-compliant (out of date, or not enough copies on the aircraft), they would not be allowed to fly the aircraft, costing HA approximately \$300-\$400,000 per incident.

Additionally, HA moved from manual flight navigation charts to EFB-based navigation charts.

NathCorp provided a variety of services to HA as part of the EFB program.

- We delivered an EFB as a Service (EFBaaS) program to HA which included the distribution and management of 2,000 Microsoft Surface devices to their entire pilot community. We provided Tier 2 24x7 support and created and managed the necessary environment to ensure the domain was isolated for security purposes and remained compliant at all time with not only FAA requirements, but also key HA security requirements to ensure any part of the ecosystem (tablet, satellite connection, cockpit connection, etc.) could not be hacked, regardless of location. In the event a pilot device was suspected of compromise, we immediately wiped the device and disconnected it form the network to always ensure ecosystem integrity.
- We developed the NathCorp "DocSync" application to distribute flight manuals, flight manual updates and various Flight Operations communications to approximately 2,000 pilots located worldwide. We were able to distribute and track a variety of file formats including pdf, exe, tif and other file types. Critical functional components of the application included:
 - The ability to report real time status of both the tablet and the manual set contained on the tablet to ensure FAA compliance
 - o The ability to refresh manual updates or manual sets in the event of accidental deletion by the pilot
 - The ability to automatically monitor for a device "online" and distribute manual updates as necessary to ensure compliance; this included the ability to alert on non-compliant devices
 - The ability to ensure manual updates were NOT applied during critical phases of flight, risking lack of tablet availability for navigation charts, airport maps, etc. We used a connection to the aircraft data bus to sense "weight on wheels" and "door closed" and pass this status to the DocSync agent on the tablet to temporarily suspend updates and always ensure tablet availability during flight, while preserving the tablet's ability to maintain and active IP-connection during flight and receive dispatch updates, upper air updates for flight path optimization, etc.

- We integrated with HA's Dispatch system to deliver electronic flight plans to the designated Captain and First Officer for a particular flight two hours prior to takeoff. This included acquiring the flight plan from the dispatch system and converting the plan to a separate format for ingest by the tablet's navigation application and was a time critical function requiring error free delivery of the flight plan to ensure there was no flight delay. Our process included tracking and validation of flight plan integrity at all steps.
- We worked with HA and a German software company to integrate real time flight path tracking to optimize fuel consumption and passenger comfort. Pilots were able to request flight path deviations from air traffic control to reduce fuel consumption. Fuel savings were estimated at over \$2 million per year.
- When the COVID-19 pandemic hit in early 2020, HA was significantly impacted. Although under no legal or contractual obligation to do so, NathCorp worked with HA to modify our contractual agreements to accommodate the drastic change in their business.

Western Digital Corporation - Worldwide SharePoint Online implementation for 30,000+ Users

3355 Michelson Dr., Irvine, CA 92612

Dave Schira – Global Head of Infrastructure Services, Architecture and Automation (Mr. Schira left Western Digital in January 2022)

Mobile: 503/709-7492

Email: dave@14ourfamily.com

Number of years NathCorp client – 6 years (2016 – present)

Western Digital (WD) is a publicly traded manufacturer of computer storage with annual revenue of approximately \$19 billion and 65,000 worldwide employees.

NathCorp has engaged on a variety of projects for WD, including the following:

- Enterprise build of worldwide SharePoint Online (SPO) platform. WD migrated from Jive to SharePoint and NathCorp was chosen to provide all the necessary design and implementation services to provision a SPO platform to support 30,000 40,000 active users globally. We conducted discovery meetings and workshops, defined and documented requirements, and built and tested the platform to ensure its ability to scale to the desired user count, and ensure the design reflected the level of availability required by the global user community. A key focus of our work was to ensure the appropriate information architecture and governance was in place so WD would not experience the current site "sprawl" it had in the Jive environment. We also designed, configured and implemented environment governance using the Desired State Configuration (DSC) from Microsoft as the foundation for monitoring, managing and approving configuration changes. Authorized changes were processed via an Azure DevOps process focused on "configuration as code" and any unauthorized changes were identified and automatically returned to their prior state by DSC monitoring the necessary stakeholders were notified of the incident and a full and complete audit log was established and maintained by DSC, including information on administrators making the changes.
- Worldwide Active Directory (AD) upgrade. This was our first engagement with WD and has been compared to "changing the engines in flight" upgrades were made to an active production AD environment, many times during working hours due to the global nature of WD's business. The upgrade was achieved with zero downtime and many of the services were automated to make implementation more efficient (EG: AD server build was completely automated and took 5-10 minutes). This approach required meticulous preparation and extensive testing to ensure no impact to the production environment and NathCorp provided all services for these tasks. Finally, the Forest Functional Level was raised with no impact to the organization.
- Replacement of VMWare WorkSpace One with Microsoft InTune and related products. This project focused on taking
 approximately 16,000 mobile users from WorkSpace One to InTune; WD was using WorkSpace One for both SSO and device
 management. The key challenge was designing a migration plan to allow 16,000 users and approximately 400 applications
 to c-exist during the migration period approximately 4 months while also ensuring a key calendar deadline was met to
 allow WD to avoid a large license renewal expense.

• Enterprise mail system health check and remediation. WD has grown their business significantly by acquisition. Many of these acquisitions were allowed to exist separately from the primary WD mail domain. NathCorp was engaged to perform a health check of the overall mail environment, including a focus on email security and SPF record integrity. We identified (75) key improvement items across (5) focus areas requiring attention and prioritized each improvement item for risk to the business and overall impact. Several of the improvement items were immediately implemented to ensure WD's mail environment was secure and appeared "clean" to external companies and users.

Universal Music Group (UMG)

2100 Colorado Ave, Santa Monica, CA 90404

Greg Corgain, Vice President – Technology Infrastructure

Mobile: 626/644-3885

Office: `818/ 286-6808

Email: Greg.corgain@umusic.com

Number of years NathCorp client – 6 years (2016 – present)

UMG – "The World's Leading Music Company" is the largest music company in the world and has recently been taken public. The company has approximately 4 million owned and administered titles, manages 250 artists and brands and owns 50 music labels. Their stock is traded under the symbol UMG.AS and their annual revenues are approximately \$9 billion.

NathCorp has provided a variety of services to UMG, including:

- Global Active Directory (AD) upgrade (2016) services were provided across the globe to upgrade the entire UMG AD infrastructure to the latest version; UMG incurred no downtime as part of this upgrade.
- Quest Active Roles Server (ARS) replacement (2017) UMG was running an older version of ARS and facing a large license upgrade charge for a product they planned to obsolete. NathCorp developed an interim replacement application Attribute Compliance and Reporting Application (ACRA) to provide key services such as user creation, modification and deletion. ACRA acted as middleware between ServiceNow (SNOW) and Active Directory, taking automated user and account creation requests from SNOW, validating key components of the data provided, and taking the necessary actions in AD a web-based user interface was also made available for manually entry, when needed. We created a SharePoint based user-maintained Rules Engine to allow UMG to adapt ACRA functionality as business rules changed to ensure they were not required to pay NathCorp to implement changes. ACRA also created the necessary transaction logs to satisfy audit and compliance requirements and fed those logs to Splunk as needed. The ACRA tool was originally planned as an interim solution for 6-12 months; the tool ran for over 5 years with over 99.5% uptime.
- Tier 2, 24x5 Active Directory, Messaging and Access Management (2017 ongoing) NathCorp provides a set of offshore resources to provide global 24x5 support to manage approximately 150 daily incidents and tasks across multiple time zones and for all UMG offices and users. We monitor performance weekly against SLAs and meet weekly with the UMG operations team to discuss tickets, identify issues or opportunities for improvement, etc. As part of this service, we also provide "White Glove" services to a group of (12) key executives, including their Chairman and CEO. Our typical response time to White Glove requests is less than 5 minutes, with resolution in 10-15 minutes, regardless of if the request is made during contracted coverage hours or during our on-call (weekend) hours.
- We have also conducted a variety of smaller projects for UMG including tenant to tenant email migrations, Contingent
 Worker password resets (involved working with approximately 3,000 Contingent Workers to reset their passwords), Service
 Account password resets (approx. 1,000 accounts), etc.

3M Corporation

Maplewood, MN

Paul Pottorff, Senior Cloud and DevOps Architect

Mobile: 206/992-7749

Paul.pottorff@gmail.com

Number of years NathCorp client - 10 years (2012 - present)

3M is a publicly traded manufacturer with revenues of approximately \$35 billion and 95,000 employees worldwide.

NathCorp was engaged to provide offshore application development and Managed Services to 3M's Digital Product Center of Excellence (DPCOE) team in support of application development and enhancement for multiple 3M business units; 3M realized over 3X productivity rate as compared to US-based resources and costs. Highlights of this long-term engagement include:

- Over (20) applications developed, including critical SafeGuard product authentication application (used on over 2 million 3M products monthly)
- Over (35) applications enhanced and supported

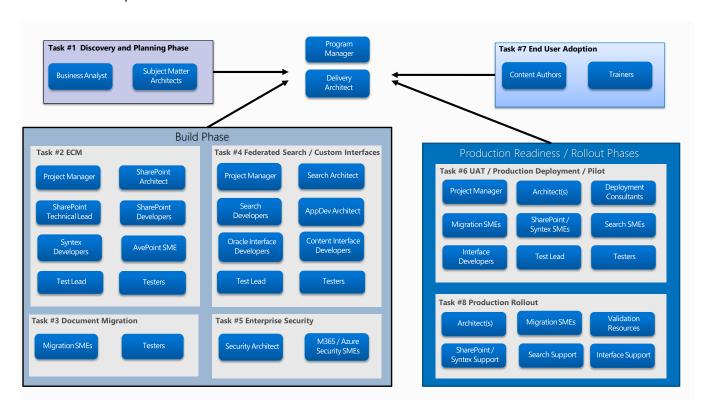
The SafeGuard product authentication application uses a complex algorithm to create unique identifying keys applied to 3M products to ensure authenticity and fight counterfeit product entering the market from various offshore manufacturing sites. The application is integrated with their entire SAP environment and deployed in (19) plants globally. 3M estimates direct savings of over \$5 million annually in counterfeit product identification, not including the value of reputation protection. See also as an example:

Over 65K Counterfeit 3M Masks Seized in Chicago | U.S. Customs and Border Protection Preview (cbp.gov)

Key Personnel and Staff (Criteria Three)

1.1 NathCorp Program Management Organization Chart

Below is the NathCorp Program Management Organization Chart that maps the resource plan to the Delivery Tasks identified in the Proposal.



1.2 NathCorp Roles and Responsibilities to support Metropolitan's ECM Implementation

Role	Responsibilities
Program Manager Primary point of contact for the Metropolitan team	
	Responsible for managing and coordinating the overall project delivery working with the assigned Metropolitan Project Manager
	Coordinates and communicates with Metropolitan PM to facilitate workshops, meetings, etc.
	Develops and owns the detailed master project plan.
	Owns status reporting, tracking issues and risks; conducts weekly status meetings.
	Contributes communications to Metropolitan stakeholders; conducts monthly stakeholder meetings.
	Responsible for resource allocation, risk management, project priorities, and identifying resource needs.
	Jointly works with assigned NathCorp project managers assigned to deliver the scope identified in specific Delivery Tasks to ensure
	alignment with the master project plan, schedule, etc.
Project Managers	The primary point of contact assigned to specific delivery Tasks.

	Manages day-to-day activities of the NathCorp resources assigned to the Task.
	Develops and manages the detailed project plan for the assigned Task.
	Coordinates the activities of the NathCorp Team to deliver deliverables
	according to the overall program schedule.
	Responsible for resource allocation, risk management, project priorities,
	and communication for the assigned Task
	Coordinates the activities of the team working with the Program
	Manager and Delivery Architect to deliver the deliverables according
	to the project schedule
Delivery Architect	Serves as primary point of contact for Metropolitan architectural and technical resources.
	Provides overall technical design quality for the ECM Solution
	Reviews technical designs and implementation.
	Works with the Subject Matter Expert Architects to align on the
	technical solution and to resolve technical issues.
	Identifies and documents technical risks and issues.
	Serves as an escalation point for technical decisions or issues.
	Identifies and communicates recommended patterns and practices to
	the ECM Delivery Team
Business Analyst	Drives and documents business, functional, and non-functional
	requirements.
	Facilitates requirements discussions with Metropolitan's business and technical SMEs.
	Works with both NathCorp Architects and Metropolitan team to confirm
	the Minimum Viable Product to be released as Phase 1 for the
	production ECM Solution.
SharePoint	Owns and develops the Technical Architecture for the ECM Solution
Architect	Will provide technical oversight and QA over the solution being
	developed.
	Help provide activities and work products that are related to the ECM
	Solution.
AvePoint Storage	Leads technical activities related to SharePoint / Azure Blog Archiving
Architect	requirements.
	Puts together the archive / storage architecture.
	Validates architecture meets requirements in test environment.
	Leads the production storage deployment solution
SharePoint	Works with Architect on requirements and architecture/design activities
Technical Lead	related to ECM and SharePoint
	Manages day-to-day development activities related to SharePoint.
	Participates in test case reviews related to SharePoint.

	Oversees quality assurance (QA) of the technical deliverables from the	
	development team related to SharePoint.	
	Assures team follows defined process and standards.	
	Reviews UAT scenario and ensures alignments	
SharePoint	Performs technical configuration activities in SharePoint in support of	
Consultants	the features and releases in scope for the project.	
	Resolves configuration issues	
Syntex Consultants	Performs Syntex OOB configuration / ML activities in support of the	
-	features and releases in scope for the project.	
	Resolves issues	
Workflow	Implements customized workflows using Power Automate / Power Apps	
Consultants	configuration activities in support of the features and releases in	
	scope for the project	
	Assigned to support the POC	
Document	Owns the migration of content from Metropolitan's content sources to	
Migration	SharePoint Online	
Consultants	Configures with the migration tool to assess all documents in current	
	content sources and builds a centralized content inventory to track	
	changes.	
	Identifies risks for potential documents that may have migration issues.	
	Performs the migration of documents and associated metadata to	
	SharePoint Online	
Azure Search	Owns and develops the Technical Architecture for the Federation Search	
Architect	Solution	
Will provide technical oversight and QA over the solution being		
developed.		
Help provide activities and work products that are related to Feder		
	Search	
Azure Search	Performs development activities in support of the features and releases	
Developers	in scope for the project.	
	Resolves search / application issues	
Application	Owns and develops the Technical Architecture for the Custom Interfaces	
Architect	to Metropolitan's Content Sources	
(Interfaces)	Works with the Federated Search Architect to ensure alignment with	
	interface specs to meet search requirements.	
	Will provide technical oversight and QA over the solution being	
	developed.	
	Help provide activities and work products that are related to Custom	
	Interface development	
Lead Developer	Coordinates technical activities related to Azure technologies.	
(Azure) Interfaces	Works with Architect on requirements and architecture/design activities	
	related to Azure technologies.	

	Manages day-to-day development activities related to Azure technologies.
	Participates in test case reviews related to Azure technologies.
	Oversees quality assurance (QA) technical deliverables related to Azure
	technologies.
	Builds master to manage various builds.
	Assures team follows defined process and standards.
	Reviews UAT scenarios
Azure Interface	Performs development activities in support of the features and releases
Developers	in scope for the project.
Developers	Resolves application issues
Test Leads	Develops and owns the testing strategy for the various Tasks.
1 CSt LCaus	Conducts tests to accurately determine the status of the solution
	development.
	Signs-off on when the solution meets specification requirements
	·
Testers /	Performs integration and component testing.
Validation	Helps development team reproduce bugs/debugging.
	Provides support for the Test Lead providing clarifications/ coordinating
	with NathCorp development team
Security Architect	Owns and develops the Technical Architecture to support the ECM
	Enterprise Security Architecture
	Regularly meets with Metropolitan Security Team to ensure alignment
	with the architecture and security configuration settings deployed in
	M365 and Azure.
	Continually meets with the SharePoint, Search and Application
	Architects to align and confirm security to be implemented in support
	of the ECM solution and that security specific configuration is
	implemented.
	Will provide technical oversight and QA over the solution being
	developed.
Security Subject	Performs configuration activities in support M365 / Azure security for
	the features and releases in scope for the project.
Matter Experts	Resolves technical related issues with security
- .	·
Deployment	Manages the build process for deployment.
Consultants	Creates deployment scripts /packages where deployment automation
	can be automated.
	Documents the ECM Deployment
	Works with the test team to ensure that the ECM production solution
	has been implemented correctly

Professional Summary

Eric is an experienced technical manager, solution architect, application programmer, analyst and team leader who has helped businesses realize the full value of their application development and information systems investments. He has a passion for innovative technologies and how those technologies can be best leveraged to create compelling applications that help companies achieve their core business objectives.

- 30-year track record of systems management, application development and product management
 - Identify needs and define relevant/optimal solutions
 - Generate requirements documents including both functional and technical specifications.
 - Lead and support presentation of solution architectures to obtain buy-in and move forward.
 - Work with and lead application development teams to deliver documented solutions and ensure those solutions meet the business needs.
 - Project management and oversight to properly set and manage expectations and ensure delivery.
 - Provided ongoing support of the solution to insure it meets business needs and coordinated with ongoing application maintenance teams as well as managed in context of effective software development lifecycle to phase business needs into proper development stages that optimize resources and outcomes.
 - Work with sales and pre-sales teams to develop statements of work and proof of concepts
- Strong analytical and problem-solving capabilities that apply innovative solutions to solve problems
- Strong expertise working in a Microsoft .NET development environment, Azure, SDLC tools and enterprise databases.
- Strong expertise designing and developing scalable, performant, extensible and stable cloud and on premises solutions
- Strong expertise as a Digital Workplace Architect with responsibilities to design and develop enterprise solutions on top of platforms such as Office 365, SharePoint Online and SharePoint onpremise, Nintex, Box.com, Slack, Microsoft Azure, Amazon Web Services, Google Cloud and Power Automate (Flow) and Power Apps.
- Demonstrated success defining and launching software products at a high level.
- Diverse experience across multiple industries and functional application development areas
- Track record of success in demanding and fast paced consultative environments
- Strong project management skills including both traditional waterfall and SCRUM/AGILE methodologies
- Strong leadership skills in leading development teams, working with executive management, coordinating third parties, and managing customer needs and expectations

- Enjoy/Prefer entrepreneurial environments
- Exceptional verbal, written and presentation skills

Professional Experience

Resua.io, Anaheim, CA Chief Technology Officer

March 2022 - Present

Responsibilities:

- Understand the short and long-term technology needs of the organization
- Develop roadmaps aligned with company goals and timelines for research and development
- Monitor KPIs and IT budgets to assess technological performance
- Verify all technological practices adhere to regulatory standards and compliance
- Identify and implement innovative technologies and processes that yield competitive advantage including AI
- Scale engineering capacity through hiring and partnering leveraging long-term relationships
- Responsible for implementing and monitoring security & compliance
- Manage vendors & technology contracts
- · Team building and mentoring. Recognizing accountability, creativity and risk taking
- Supervise system infrastructure to ensure functionality and efficiency
- Build quality assurance and data protection processes
- · Capitalize on stakeholders' feedback to advise on necessary improvements and adjustments

NathCorp/Auto Club, Irvine, CA Microsoft 365 Architect/Technical Project Manager

December 2021 – Present

Responsibilities:

- Migrate 21,000 Exchange mailboxes to Exchange Online
- · Lead on-shore and off-shore teams
- Primary point of contact with Auto Club
- Architect Intelligent Document Processing solution for large health insurance carrier using Microsoft SharePoint, Microsoft Syntex, Azure Forms Recognizer and Azure Cognitive Search

NathCorp/Western Digital, Irvine, CA Microsoft 365 Architect/Engagement Manager

April 2021 - December 2021

Responsibilities:

- SharePoint Online Security and Compliance processes and implementation
- Lead on-shore and off-shore teams
- Primary point of contact with Western Digital
- Implement Configuration as Code using Microsoft365DSC

ThreeWill, Alpharetta, GA

June 2020 - February 2021

Sr. Consultant

Responsibilities:

- Design and develop SPFx web parts
- Help with the PwC migration from Jive to SharePoint Online
- Help with the CVS/Aetna Unily to Unily Migration

PIMCO, Newport Beach, CA

August 2012 - January 2020

Collaboration Platform Lead, SharePoint Architect, Digital Workplace Lead

Responsibilities:

- Design, develop, and implement Microsoft based applications and solutions across various enterprise needs including:
 - o Business Process Automation
 - o Electronic Form Design and Development
 - Workflow Design and Development
- Atlassian Confluence (on-prem) Platform Lead
- Atlassian Jira (on-prem) Platform Lead
- Box.com Global Platform Lead
- Slack Global Platform Lead
- Meet with business users to understand application needs and requirements
- Solution Architecture design
- Application Development
 - Custom workflows and workflow actions
- SharePoint Environment Architecture, Implementation and Administration
- Software Development Life Cycle Process management
- Train application developers, administrators, citizen developers/power users
- Work with CTO & senior leadership on product and technology roadmap
- Office 365 administration & support
- Azure AD administration & support

Prim	ary Projects	Environment
1	Inventory Management	Azure
2	Charitable Contributions	SharePoint, Nintex
3	Political Contributions	SharePoint, Nintex
4	Out of Office Request	SharePoint, Nintex
5	Compliance Marketing Reviews	SharePoint, C#, InfoPath
6	Cash Transfers	SharePoint, C#, InfoPath
7	Global Meeting Requests	SharePoint, Nintex
8	SharePoint Site Requests	SharePoint, C#, ASP.NET
9	Anti-Money Laundering Notifications	SharePoint, Nintex
10	SharePoint Calendar Reminders	SharePoint, C#, Nintex
11	Anti-Alert Solution	SharePoint, C#
12	Technology, Funds & Solution Department Intranets	SharePoint
13	Technology Device Requests	SharePoint, Nintex

14	Trading Certifications	SharePoint, Nintex
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A.C.T.O, Huntington Beach, CA Owner / Architect / Trainer

Aug 2007 - Present

Responsibilities:

- Design, develop, and implement Microsoft based applications and solutions across various enterprise needs including:
 - Business Process Automation
 - Electronic Form Design and Development
 - o Workflow Design and Development
 - Intranet Design and Development
 - o Azure Cognitive Services, Forms Recognizer & Computer Vision
- Meet with business users to understand application needs and requirements
- Solution Architecture design
- Application Development
- Software Development Life Cycle Process management

Pro	jects/Responsibilities	Environment
1	Accounts Payable Processing	Azure, SharePoint Online
2	SharePoint Migration	SharePoint
3	Colony Intranet Development	SharePoint, C#
4	Charles Drew Intranet & CRM Integration	SharePoint, C#, MS CRM
5	Wildermuth Environment Remote Data Capture	ASP.NET
6	Sunrise Mgmt. Intranet Development	SharePoint, C#
7	SynerMed Intranet Development	SharePoint, C#
8	SAG SharePoint Migration & Development	SharePoint, C#
9	Disney Intranet	SharePoint, C#
10	lamResponding.com	ASP.NET

Partial Client List:

- Bamert Seed
- Wilshire Associates
- PIMCO
- Colony Capital
- Merit Properties
- Action Property Management
- Oxstein Design Labs
- California Credit Union
- Charles Drew University
- Wildermuth Environmental
- Sunrise Management

- SynerMed
- University of California Irvine
- Screen Actors Guild
- Walt Disney Studio Home Entertainment
- Meridian Schools
- Cardinal Health / CareFusion
- Dynamic Methods
- Young Electric Sign Company
- Fox Entertainment Group
- Microsoft

- Toyota
- Venice Consulting Group
- iCrete / Pacific Capital
- US Marine Corp.
- Metropolitan Water District
- Surrex Solutions
- IMAG Consulting
- IAmResponding.com
- Life Steps Foundation

Venice Consulting Group, Culver City, CA **Director Consulting Services / Sr. Microsoft Architect**

Feb 2006 - Aug 2007

Responsibilities:

- Practice Manager Managed Microsoft Collaboration practice from start to Microsoft Gold
 Partner status. Managed team of 10 developers and 2 project managers.
- Engagement Management Primary point of contact for multiple clients. Responsible for P/L for client projects.
- Product/Project Management Client advocate and responsible for functional and technical documentation for lamResponding.com.
- Resource Management Managed near-shore team of 40+ developers and development leads.
- Technical sales support Responsible for supporting sales teams on all collaboration sales efforts including authoring Statements of Work and project plans.

Projects/Responsibilities		Environment	
1	lamResponding.com	ASP.NET	
2	Collaboration Practice Management	SharePoint, C#	

Aviva Consulting Group, Costa Mesa, CA **Senior Architect**

Feb 2005 - Feb 2006

Responsibilities:

- Design Custom SharePoint Portal Solutions
- Diagnose and remediate architectural issues
- Risk identification and mitigation planning
- Hosted & Multi-tenant SharePoint Architecture Design and Implementation
- Infrastructure Design (Active Directory, ISA Server)

Pro	ects/Responsibilities	Environment
1	ACES Sarbanes-Oxley Compliance Product Development and	SharePoint, C#
	Implementation	

Microsoft, Irvine, CA

Oct 2000 - Jan 2005

Sr. Consultant II, SharePoint Critical Situation Lead, Enterprise Architect, Technical Lead

Responsibilities:

- Design and developed custom Microsoft enterprise solutions
- Diagnose architectural issues
- Enterprise/Active Directory design and implementation
- Server & desktop migrations
- Partner management
- Software Development Lifecycle Management
- Architecture and Code reviews

• Technology roadmaps

Proj	ects/Responsibilities	Environment		
1	Telecom Equipment Administration Application – Toyota	C#		
2	Remote Access Service Application	C#		
3	ManageNetWeb application	C#		
4	ToyotaVision Intranet migration	SharePoint		
5	Dealer Pipeline Management Application	C#		
6	StorageTek Intranet	SharePoint, C#		
7	Coors Brewing Discovery Solution	SharePoint, C#		
8	NIH Employee Portal Migration	SharePoint, C#		
9	FnF Employee Portal	SharePoint, C#		
10	Progressive Insurance Portal	SharePoint, C#		
11	So Cal .NET UG C# Presentation	C#, VB.NET		
12	Citizens Business Bank SQL Server Migration	SQL Server		

Partial Client List:

- StorageTek
- Coors Brewing Co.
- Toyota Federal Credit Union
- National Institutes of Health
- Toyota Financial Services
- Fidelity National Financial
- Nissan Motors, America
- Progressive Insurance
- Toyota
- Southern California .NET Users Group
- Southern California Edison
- Electric.com/ Commonwealth
- Citizens Business Bank
- Pacific Life
- PacifiCare
- Stellcom
- Boys and Girls Club of San Pedro

M1 Software, Santa Monica, CA

Jan 1998 – Jan 2000

ECommerce Practice Director, Sr. Technical Lead

Responsibilities:

- Worked with Sr. Executives to develop and implement operational and marketing strategies for the practice
- Develop and implement procedures for identifying, screening and hiring employee candidates
- Planning and implementation of near-shore development strategy
- Support Sales team in defining proposed solution architecture and presenting to client
- Meet with business users to understand application needs and requirements
- Solution Architecture design and Application Development
- Software Development Life Cycle Process management
- Lead and manage development team

Primary Projects		Environment	
1	Designed and Developed Gift registry at buy.com	C#	
2	Designed and Developed Buy.com Travel Site	C#	
3	Design and develop bulk email system.	C#	
4	Design and develop Service Loyalty System for MyCarPage.com	C#	
5	Various Custom SharePoint Portal Solutions	SharePoint	

Earlier Experience

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Sr. Software Engineer, Database Administrator Alliance Pharmaceutical Corp., San Diego, California	January 1997 – January 1999
Sr. Software Engineer, R&D Engineer Nellcor Puritan-Bennett, San Diego, California	January 1997 – January 1999
Software Engineer HNC Software, San Diego, California	January 1995 – January 1996
Software Engineer Equifax National Decision Systems, San Diego, California	January 1995 – January 1996
President, Chief Software Architect Simple Logic Industries, Seal Beach, California	January 1988 – January 1995

EDUCATION

Management Information Systems
California State University Long Beach, Long Beach, California

August 1988 - June 2000

Eric F. Halsey

Studies focused in application development using languages such as C++ and Pascal, operating systems design using Xinu and general business classes such as accounting and economics.

ACTIVITIES & AWARDS

Volunteer, PIMCO Pro Bono Corps, Brackens Kitchen

Volunteer, TEALS Advanced Placement Computer Science Java Teacher Corona Del Mar High 2014-2016

Volunteer, Treasurer Huntington Beach Host Lions Club 2017-2019

Volunteer, President Huntington Beach Host Lions Club 2015-2016

Volunteer and 2nd Vice President Huntington Beach Host Lions, 2014-2015

Volunteer, Boys and Girls Club of San Pedro, 2002-2003

Microsoft ICE Contributor Award 2002

Security Program Development

Cybersecurity Evangelist

Experienced cyber security professional results-driven, logical and methodical approach to achieving complex tasks and objectives. Bringing 25 years of extensive financial, healthcare, and utility industry practical IT and 20 years of specialization in cyber security to modern cyber security and compliance challenges.

KEY ACCOMPLISHMENTS

Western Digital - Consulting Position: As Project and Technical Lead, led the migration of 400+ applications from Workspace ONE to Azure AD, 18k Devices from UEM(AirWatch) to Intune, and security access polices to Azure Conditional Access. Also provides security consultation for SharePoint migration from Jive.

Sempra Energy - Consulting Position: Provided cyber security, and engineering expertise on 54 enterprise projects, deploying NIST 800-53 Framework controls with RSA Archer Suite for Governance Risk and Compliance.

MemorialCare - Consulting Position: Worked closely with CIO to successfully translating non-technical business goals and strategies into successful practical implementation of technical security controls. Projects include consolidating all hospital campuses firewalls to FortiGate with the Forti-ecosystem, new SIEM, Enterprise CA/PKI infrastructure, DUO 2 Factor Authentication, AirWatch MDM, F5 applications delivery appliances, SCCM, and HIPAA and Security Risk Assessments.

East West Bank – VP IT Security: Developed and oversaw a successful and effective team that secured customer and corporate data in a highly regulated environment.

SKILLS SUMMARY

Server and Network Engineering

 Governance Risk & Compliance Audit and Remediation Threat Hunting, Modeling Data Loss Prevention Cybersecurity Incident Response Risk Assessment Threat Mitigation 	0 0 0 0	Intrusion Detection, Prevention Advanced Endpoint protection Configuration Management Mobile Device Management Security Awareness Training Policy Procedure and Standards	0 0 0 0	Project Management Security Metrics Process Improvement Vendor Management Team Building Mentoring	
NathCorp Irvine, California				2019-Present	
Senior Cybersecurity Consultant Vaco Technologies La Jolla, California				2017-2019	
Senior Cybersecurity Consultant Primeau Consulting Group Torrance, California				2016-2019	
Senior Cybersecurity Consultant Cebula IT Consulting LLC, Laguna Hills, California				2012-2017	
Senior Information Security Consultant Andrea Hoy and Associates, Laguna Hills, G		2011-2019			
Senior Information Security Consultant East West Bank, Pasadena, California 200					
Vice President Information Technology Security					

Alpha Consulting, Los Angeles, California – Senior Consultant 2000-2003

Independent Consultant, Los Angeles, California IT engineering and Y2K consulting 1999-2000

Bird, Paton, and Associates, Pasadena, California – IT Consultant 1998-1999

EDUCATION

University of California, Santa Barbara - BS, Business Economics 1992

PROFESSIONAL CERTIFICATIONS

Certified Information Systems Security Professional (CISSP)
Certified Cloud Security Professional (CCSP)
HealthCare Information Security and Privacy Practitioner (HCISPP)
Certified Information Security Manager (CISM)
Certified Ethical Hacker (CEH) — Ethical Hacking and Countermeasures 2004 - 20016

AFFILIATIONS

International Information Systems Security Certification Consortium (ISC)² Information Systems Security Association (ISSA) Information Systems Audit and Control Association (ISACA)

Lubo Lubomirov

SUMMARY OF QUALIFICATIONS

Strong technical and problem analysis skills proven under high-pressure environments. 19+ years of extensive experience in relational database system analysis, design, and implementation. Specializing in management and design of highly scalable database systems with emphasis on Oracle 12c, 18c, and 19c RAC on Exadata and Linux operating environments. Problem solving in UNIX/Linux, IBM AIX and Microsoft 24x7 production environments.

Hands-on DBA experience working with VLDB's (12TB+) in Oracle 12c and 18c RAC environments with DataGuard and Golden Gate.

Four years hands on experience configuring, performance tuning and administering Oracle Exadata.

Proficiency developing all SDLC phases using the latest innovative approaches that resulted in detail-oriented documentation based on advanced UML and process diagrams.

Experience working with TOAD, SQL Loader, QUEST Spotlight and Foglight monitoring tools.

Strong database business intelligence and reporting hands-on experience using Oracle OBIEE and Hyperion, Cognos, MDM and Business Objects.

TRAINING AND CERTIFICATION

Tibco BusinessWorks 1.x January 2003

Tibco BusinessWorks 1.x Integration Bootcamp January 2003

Windows 2003 Server Administration October 2003

Oracle 9i Database Administration Fundamentals 1 December 2003

Oracle 9i Database Administration Fundamentals 2 December 2003

Oracle 9i Performance Tuning - February 2004

Migrating SQL Server to Oracle 9i March 2004

Advanced PL/SQL Oracle 9i March 2004

Oracle 9i implementation on EMC Symmetrix April 2004

EMC Symmetrix Bootcamp configuration, administration, and DR - January 2005

Oracle 10g Database Administration New Features June 2005

Oracle 10g Grid RAC implementation and administration February 2005

OCP 9i March 2005

Oracle Database Design and Architecture Best Practices - March 2006

Oracle RAC Workshop - June 2007

Oracle 12c RAC configuration best practices and performance tuning – September 2017

Oracle 18c New Features configuration best practices – January 2018

RELATED WORK EXPERIENCE

NathCorp / Open Technology Solutions

www.theopentechgroup.com

Sr. Database Architect\DBA

March 2011 - Present

Managed security compliance Oracle databases and interacted on daily basis with executive team members in defining report requirements.

Responsible for Oracle 12c and 18c RAC databases audit, security, RMAN backup policies, and disaster recovery environments.

Configured and migrated Oracle 18c RAC database instances to Exadata.

Managed Oracle RAC 12c, 18c, and 19c databases in mission-critical environments with 98% SLA requirements.

Responsible for critical patch updates, RMAN backup and recovery using centralized catalogs.

Installed, configured, and managed new Oracle 12C OEM Cloud Control 13c. Responsible for rolling patch upgrades,

RMAN backup jobs in OEM, as well as monitoring and remediation of threshold alerts in Exadata environments.

Installed and configured Oracle DataGuard for Oracle 12c and 18c RAC-enabled database environments.

Completed Oracle 12c GoldenGate planning, implementation, testing, and maintenance on Linux RedHat.

Designed and implemented highly transactional database models, optimized for Oracle RAC.

Resolved complex database performance issues related to ETL processes and query optimization achieving over 400% improved database response time.

Proficiency working with ADDM and AWR reports as well as with all analysis tools, part of the Performance Tuning enterprise pack.

Installed and configured Oracle Streams in 11G R2 RAC and standalone environments.

Lead DBA for MS SQL Server 2008 R2 and 2012 clustered (AG for 2012) and standalone critical Production instances. Installed, configured, and responsible for PostreSQL database servers in AWS EC2 cloud.

Wells Fargo Bank

www.wellsfargo.com

Sr. Database Architect\Contract - Des Moines, Iowa

August 2010 - March 2011

Senior Data Architect resource in both OLAP an OLTP Oracle 11g environments.

Responsible for periodic extensive performance tuning efforts utilizing ADDM, AWR reports and I/O, LUN, and CPU analysis and resolution.

Implemented Oracle DataGuard and GoldenGate in RAC-enabled database environments.

Managed Oracle OLTP production and staging environments while establishing enterprise-wide data structures, design standards, and well documented models.

Planned, scheduled and implemented in Oracle database environments database design integration points across different business units in order to facilitate one master data plan and to establish well-structured design patterns representing common business rules across the enterprise. Daily tasks include:

- Understand application architecture and business requirements
- Translate business requirements into database design models and integration points including business flow charts.
- Architect and configure OLTP database systems for playback sessions with customers.
- Craft scalable database solutions with embedded business vision for long-term growth.
- Work with various groups to migrate large-scale database applications into unified environments.
- Create, enforce, facilitate, and extensively communicate full-life cycle database architectural standards across the enterprise.

Utilized on daily basis Oracle Data Integrator to feed data into ODS and into OLTP databases from heterogeneous sources

Managed master data models for PeopleSoft, SAP, and third-party applications as part of a master design and architecture framework.

IBM Global Services

www.ibm.com

August 2009 August 2010

Sr. MS SQL Server and Oracle DBA

Planned, scheduled and implemented 38 Microsoft SQL Server 2005 and 2008 two-node clustered systems. Architected and performance tuned mission-critical Oracle 10g RAC systems. The tasks for this project included:

- Analysis of SAP application architecture and nature of transactional activity against the database tier in standalone environment
- Work with BASIS team to implement best practices SAP database and applications security models
- Prepare the correct hardware and software Microsoft stack in accordance with application architecture and customer's environment
- Architect and configure EMC SAN for Oracle RAC and MS SQL Server installation. This includes configuring volumes, LUNs, access paths, and HBA host configuration.
- Configuration of MS SQL Server clustered services and tested fail over and fail back capabilities
- Configuration of MS SQL Server instances and databases in Clustered environment.
- Installed and configured Oracle 10g R2 2-node RAC systems in all environments.
- RAC-enabled all standalone databases and performance tuned the configuration after testing with the development team.
- Established baseline practices for Oracle RAC and used performance tuning pack to improve response time and lower query overhead.

BestIT

www.bestit.com

July 2007 August 2009 Oracle Solutions Architect

Oracle Certified Preferred Technology Partner

Led global technology delivery teams on multiple projects in North America, Europe and Asia while architecting state of the art Oracle and Microsoft based systems designed for performance and scalability at low TCO and maximum ROI. Coordinated development and system administration teams in Fortune 100 financial institutions in their effort to integrate heterogeneous financial applications and develop new operational platforms by establishing corporate-wide standards.

Architected Oracle and J2EE based financial systems designed for maximum security, high availability, VLDB's, bidirectional replication processes and OLTP concurrencies.

Planned, scheduled and implemented Oracle 11g six-node RAC serving both Data Warehousing and OLTP- based applications with WebLogic application servers.

Performance tuned complex queries and business logic in Oracle RAC and standalone environments using AWR, ADDM, SQL Tuning Advisor, SQLAccess Advisor, and all available DBMS packages.

Migrated Oracle databases to RAC environments for SAP and PeopleSoft clients.

Developed and implemented maximum availability database protection based on RMAN, DataGuard and SAN backup\snapshot policies.

Architected and successfully implemented logical and physical database standby

databases for DR and reporting purposes based on downstream single or bi-directional replication.

Managed 10g and 11g databases with Oracle 11i and R12 application server stack including upgrades, promotions, patches, customizations, and BI reports integration.

Installed and configured Oracle 10g GRID Control with DataGuard for multiple clients.

Configured Microsoft SQL Server 2005 clustering for new SAP implementation and configured BASIS alerts and events in the application.

Planned, architected, and implemented MS SQL Server Transactional replication and Database Mirroring with MS SQL Server 2005.

U.S. Navy
www.usnavy.mil
June 2004 July 2007
Senior DBA/Architect

Lead enterprise-wide effort for database instance consolidation and hardware rationalization that includes migration from Oracle 9i to Oracle 10g RAC back-end architecture across all environments.

Implemented and maintained Oracle Data Guard on 10g R1 critical production databases.

Architect scalable ASM and OCS implementation plan for all Oracle 10g RAC enabled database instances.

Design, implement, and manage Oracle 10g 6-node RAC on SUN Solaris with 68 database instances and 4.2TB of data in Production environment. Oracle 10g RAC environment was also developed and implemented in Development and QA environments.

Responsible for mission-critical Oracle 9i and 10g RAC databases. Duties include ensuring maximum uptime and availability, scalability, backup and recovery with RMAN and Veritas. Developed and implemented database change-control and code review process.

Lead data warehouse project for separating transactional and business intelligence data using Oracle Warehouse Builder and Cognos.

Responsible for migration from Oracle 9i standalone databases to Oracle 10g RAC environment. Developed detailed migration project plan that includes resource allocation and management, communication channels, risk assessment and backup strategy.

Configured and administered EMC CLARIION 300, 500, 700 series and DMX storage. That included architecture and design, setup and implementation of LUNs, RAID levels, HBA configuration, NavySphere enterprise management tools installation and management. In process of implementing SnapView and MirrorView, SRDF, and TimeFinder as part of DR strategy planning.

Participated in the design of detailed DR plan based on LDRPS and EMC core backup technology such as SRDF, MirrorView and SnapView.

Planned, designed, and implemented database migration from MS SQL Server 2000 to Oracle 10g for over 70 SQL Server database instances into 2 Oracle 10g RAC databases.

Architected and configured three separate Oracle 10g and 9i RAC environments on SUN Solaris and on LINUX Red Hat servers.

Responsible for code review and promotion process, working closely with sr. developers for application and database performance optimization.

Installed, configured, and administered Oracle OCS and BPEL 10g Release 2 document management and collaboration systems with more than 15,000 users and 4TB of production data.

Lead database administrator for LNS database migration\consolidation. This project includes database and application consolidation of MAXIMO, Fleet Manager, CIMAGE, CUBIC and other financial applications widely used in the U.S. Navy. The combined user base for all financial, HR, contract procurement, GIS, OCS, and other classified applications is over 240,000 users.

Data Guard was implemented successfully for OCS Oracle 10g classified databases.

Participated in a government-wide effort for application, network, and database Security Technical Information compliance. This effort includes re-hosting all databases to new STIG compliant Oracle Home, migrating all data, users, and roles. Running custom scripts to pre-create the users and roles with new security model. Test the databases and work closely with development and PM community to ensure smooth transition and no downtime for users.

Managed all PISTOL Seabee database environments including upgrade from Oracle 9i to 10g R1. Enhanced PISTOL Seabee database functionality based on new specifications.

Promoted scripts to Production on both application and database server for PISTOL enterprise-wide project. That includes database stored procedures, security changes, packages, Oracle AS reports and forms.

Worked closely with PISTOL Seabee Project Management and Development teams to enhance and maintain database performance, recoverability and uptime in accordance with the growing number of simultaneous users.

Bank of America
Simi Valley, CA
www.bankofamerica.com
September 2003 May 2004
Senior Client Server/DBA Engineer

Developed standards and procedures for innovative technological implementations within the company that involve all current SDLC standards for process documentation.

Worked on two large scale (2TB and 5TB of data) enterprise implementation projects of Oracle 9i RAC and Data Guard on IBM AIX which are including three node clustered configuration. Responsible for OEM setup and administration, Data Guard configuration, RMAN backup/recovery strategy, jobs, and alerts. Responsible for all user and security administration through OEM.

Designed, tested, and implemented Oracle Maximum Availability Architecture solution for critical loan system with over 12TB of data. This solution includes Oracle 9i 3-node RAC, DataGuard, and EMC SRDF snapshots and SAN backups. Configured and administered jobs, alerts and events on OEM central repository that manages 18 database instances. Configured RMAN backup plans and scripts with Net Backup for maximum 24x7 database availability in accordance with specific retention policies.

Installed and configured Oracle 9i RAC for PeopleSoft Financials and HR applications on IBM AIX pSeries 690 with all custom database modules and specific configuration requirements.

Planned, designed, and implemented EMC Symmetrix and DMX integration with Oracle 9i using SRDF and BCV. Moved existing Oracle 9i databases to EMC DMX leveraging EMC data replication technology and business continuance. Participated in the design and implementation of bidirectional transactional replication among three different geographic locations using Oracle 9i.

Constellation NewEnergy (Fortune 500)
Constellation Energy Group
Walnut Creek, CA
www.constellation.com
www.newenergy.com
June 2001 July 2003
Senior Database Administrator

Developed database monitoring and optimization scripts for real time EDI and XML data import and billing applications. Created PL/SQL scripts, stored procedures, triggers, and constraints ensuring domain and environmental integrity. Designed and implemented the migration of production Oracle 8i and 9i database servers with 3TB of data to a more reliable EMC Symmetrix storage system. Designed RAID sets on EMC Symmetrix for Oracle databases. Implemented change management methodology between development, test and production environments for database related applications, middleware, and web pages. Prepared change management scripts, utilizing version control, to coordinate upgrade and installation of new code for smooth transition or complete recovery.

Managed a team on 24x7 on-call schedule, providing level 2 and 3 database, network, and application support across the company serving in 12 US states and 2 Canadian provinces.

Assisted in the planning and implementation of TIBCO middleware as an integration effort among heterogeneous platforms and applications in the company using TIBCO BusinessWorks, HAWLK, and TIBCO Designer. Provided administrative and programming support integrating databases within the company via TIBCO processes.

Analyzed, planned, and implemented new database and application security model for users and processes to access production and test databases using Oracle 9i security model.

Participated in the successful resolution of database locking problems, query optimization, application hanging processes, data, and hard disk corruption.

Assisted in development of National Reporting database using Oracle 9i OLAP. Developed advanced OLAP schemas, shared cubes, dimensions, and measures to meet business rules and to provide accurate reports.

Performed capacity planning to accommodate business growth on clustered production servers with more than 3TB data overall.

Sr. DBA team lead on global 99.9% high availability 24x7 Oracle 8i/9i database servers on SUN Solaris environment with more than 3TB of OLTP and OLAP databases. Developed and implemented successfully plans for SQL Server upgrades between Oracle 8i and Oracle 9i production servers without downtime for the business. Crafted flexible solutions for data conversion and manipulation between multiple billing, accounting and application database servers using SQL Loader, Transactional Replication, custom scripts, and Data Guard.

Worked with development team to adapt and write complex queries for performance optimization and efficiency. Developed and implemented best practices in database development, data access and application integration with senior development members that include index creation and optimization, logical and physical database design. Participated in design, implementation and support of backup network based on Galaxy Commvault software (latest version presently used 4.1) providing high availability of data and strict retention policy of backups to protect the business and minimize downtime.

Assisted in design and implementation of development environment and data manipulation and updates across the enterprise.

Successfully managed a team of DBAs providing guidance, delegating and sharing responsibilities with team members to ensure accurate and on time project completion while creating professional and integrity-based work environment.

Princeton Review
San Francisco, CA
www.princetonreview.com
Senior Database Administrator
April 2001 June 2001- Contract

Performed database administration of four eight-ways Oracle 8i database servers on SUN Solaris operating system with more than 2 million concurrent users.

Supported online enrollment application system for Stanford University for current and prospective students. Database Administration duties include: Executing incremental and complete backups on different database instances. Running Oracle 8i performance monitoring and tuning scripts. Assigning indexes for database speed optimization. Query optimization includes fixing deadlocking stored procedures and bottleneck performance problems. Writing Oracle packages for data migration. Using SQL Loader and migrating databases among different environments within the company. Assigning security and permission levels in development and production environments.

Partini
Pleasanton, CA
www.partini.com
Senior Database Architect
June 2000-April 2001

Designed and implemented the database schema for part configuration, supplier sourcing, RFQ builder, package management, and auction engine with more than 800,000 parts, and 1500 suppliers.

Developed database logical and physical design using ERWIN Platinum, Rational Rouse, UML and DESIGNER 2000. Hands-on experience working with Oracle 8i, XML View Mapper, XML, XSL, and Biz Talk Server. Extensive experience using stored procedures, triggers, batches, transactions, cursors, views, XML, and XDR (XML View Mapper). Database administration responsibilities include: Developed database maintenance plans, performing transactional and incremental backup packages, query performance monitoring and optimization, developing database packages for data integration of heterogeneous data sources. Prepared and executed jobs, alerts, and database speed and space optimization tasks including transaction log management and database memory allocation.

Assigning database roles and determining security permission levels with Oracle and UNIX security model. Developed and supported database replication on Oracle 8i.

Kids On-Line America
San Francisco, CA
KOLA
www.kola.net
Senior Database Administrator
October 1999-June 2000

Developed database logical and physical architecture with Oracle 7.3 on a site with more than 8 million users. Optimized stored procedures, implementing highly available and accessible database configurations (views look up tables). Designed and implemented Database Maintenance Plans, jobs, and assigns levels of database security authentication. Fully built the back-end of the company including Batches, Stored Procedures, Views, Triggers, and Indexing. Supervised two junior DBA's in their development efforts.

EDUCATION

Electro technical University, Plovdiv, Bulgaria M.S. Computer Science June 1998

Armstrong University, Oakland, California Master of Business Administration (MBA) May 2000, Major: MIS

Warren Kerby

Managing Principal

Professional Skills

Possess strong written and communications skills

Technical background expands 35 years of experience including:

- IBM Mainframes / Client Server
- Windows / Unix Platforms
- TCP / SNA Networks Protocols
- File Transfers / Platforms
- Security across all layers
- Application Development
- Database / Reporting
- Performance Testing / Analysis

Consulting Delivery Experience:

- Working closely with customers to align on success criteria
- Managing large consulting teams and projects / continually manage customer expectations
- Understanding and identifying notential risks
- Working with the Product Teams
 / Vendors to resolve issues
- Identifying and confirming the right resources to delivery the projects
- Strong understanding of Architectures
- Content Reviewer of Document Deliverables
- Program / Project Management

Education



Bachelor of Science (BS), Computer Science

Professional Experience

NathCorp 2018 to Present

Oversee delivery of consultant engagements across enterprise customer and industries. Responsible for ensuring the delivery teams are aligned on customer goals and that the solutions implemented meet overall customer objectives. Work with the sales team to support and drive strategic large deals across the entire Microsoft technology platform.

Some Key Projects Include:

- Nationwide Insurance Company -> Migration to SharePoint Online, Teams, and Exchange Online. Active Directory / DNS Upgrade to 2019; SCOM Upgrade to 2019
- Global Entertainment Industry -> Migration of Active Directory to 2019; Migration to
 Exchange Online; Identity Management built custom interface between Azure Services
 to ServiceNow to automate account management via HR system.
- Global Storage / Chip Manufacture -> Migration of older Domains to Active Directory
 2019 in multiple countries; Migration of on-prem enterprise content management system
 to SharePoint Online; Migration from legacy federation platform to Microsoft Azure
- Industrial Farming Equipment Manufacture -> Centralize IOT data sources to Azure Data Lake, Develop KPIs and Reporting to meet global customer needs.

Microsoft Corporation 2000 to 2018

Security Architect during my first few years:

- Developed Microsoft prescriptive architecture on the Internet Data Center focusing on the security and network layers to build the best-in-class DMZ working with Cisco, Intel, Compaq, EMC
- Content author for multiple Microsoft Publications: Internet Data Center; Windows 2000
 Security Operation Guide
- XBOX Online Security Analyst Configured cloud network and OS security prior to GA
 Release; Performed penetration testing to confirm configuration meets the requirements.

Sr. Account Delivery Executive for the remaining years at Microsoft:

- Responsible for overseeing the delivery of Consulting Services with Microsoft's Enterprise
 Customer Accounts in Southern California and Hawaii. Accountability for customer
 satisfaction and the successful implementation and support of Microsoft solutions within
 customer environments.
- Assembled the global delivery consultant teams to support Engagements spanning from initial concept envisioning through implementation including enterprise support.
- Engagement Technologies focused on: IOT, Azure, Dynamics AX, Identity Management,
 O365 Services, Custom Developed Mission Critical LOB Applications, OLTP / Data Lake /
 Hadoop, Reporting, Cybersecurity, Infrastructure Consolidation, Disaster Recovery
- Industries Covered Include: HealthCare, Utilities, Media and Entertainment, Financial Services, Biotech, Capital Markets, Retail, Ecommerce

С

C

CHAD CURTIS, PMP

PROJECT MANAGEMENT & OPERATIONS EXECUTIVE



Long Beach, CA

In linkedin.com/in/blackedoutbuddhist

Dedicated, compassionate, and results-oriented Project Management and Operations Executive with over 21 years of diverse experience in multiple industries. I have 5 years of experience as a business coach with a demonstrated track record of success working with diverse populations, as well as years of experience in driving continuous growth through efficient and effective operational management in the defense and aerospace industry. A dynamic leader and natural advocate who connects with any personality, I'm eager to continue my journey and never stop growing, committed to excellence in everything I do.

EDUCATION

Master of Science in Project Management | Boston University, Boston, MA

Bachelor of Science in Human Resource Management | New School University, New York, NY

CERTIFICATIONS

Project Management
Professional (PMP # 535318) |
Project Management Institute,
2008

Certificate in Lean Six Sigma Green Belt | EADS North America University, 2006

SKILL HIGHLIGHTS

- Outstanding Communication and Interpersonal Skills
- Leadership & Influence
- Project Management
- Creative and Pragmatic Problem-Solver
- Infectious Passion for Growth & Innovation
- Brilliant Time Management and Prioritization Skills
- Flexible Thinking and Adapts to Changes
- Critical & Analytical Thinking

PROJECT MANAGEMENT EXPERIENCE

Director of Project Management

L3 Technologies, Electron Devices Division | 2014 – 2018

- Effectively managed various daily operations and growth functions for a \$12.5 Billion worldwide leader in communication and electronic systems, including leading long-term strategic planning for project and product development, annual revenue projections and planning, and maintaining strong relationships with key stakeholders.
- Full P&L responsibility, provided oversight for a \$62 Million annual project portfolio in the development and production of satellite traveling wave tube amplifiers (TWTAs) that served domestic and international customers, including the United States Department of Defense, its prime contractors, Government Intelligence Agencies, Department of Homeland Security and foreign Governments.
- Led and inspired a multi-disciplinary team by setting clear goals and expectations, providing guidance and coaching, fostering a growth mindset, delegating tasks according to past performance, and improving team performance through regular evaluations and feedback.
- Achieved a double-digital portfolio EBIT increase by attaining all program early delivery incentive fees.

Senior Project Manager & Business Portfolio Manager

L3 Technologies, Power Paragon Division | 2008 – 2014

- Maintained a high-volume workload in a fast-paced environment, including leading a \$30 Million annual business portfolio, managing a team of 4 project management direct reports, and facilitating continuous growth through a focus on driving EBIT, orders, sales, and cash flow.
- Received the 2013 Presidential Award by implementing a task level negative variance analysis
 process, and schedule quality and risk analysis tools that enabled teams to more accurately predict
 and influence project adherence to plans.
- Oversaw a team of 10 direct reports in the project engineering department, facilitating the technical success of all development products/programs, ensuring adherence to allocated budgets and strict deadlines, and collaborating with the project management office to optimize resource distribution across all programs.
- Drastically reduced cost and schedule variances by establishing an enterprise engineering resource and manpower planning process, achieving alignment between supply and demand.
- Demonstrated excellent project management skills by leading a \$25 Million advanced power
 conversion development program, serving as the primary point of contact for customers, and
 overseeing project P&L, schedule, risk, scope, quality, procurement, negotiations, and executive
 status reporting, and growing follow-on business opportunities for programs being executed.

Senior Project Manager

European Aeronautical Defense & Space (EADS) North America, Inc. | 2004 – 2008

- Expertly managed all aspects of programs, including P&L, schedule, risk, technical, quality, procurement, and subcontract negotiations.
- Led the integration of major subsystems, including software for the company's largest single program to date, in excess of \$150 million.
- Generated \$4.2 Million in revenue by successfully developing a performance-based logistics (PBL) program and employing subject matter expertise to manage all aspects of programs, including P&L, schedule, risk, technical, quality, procurement, and subcontract negotiations.
- Significantly increased revenue by growing repeat test system business opportunities with key clients, resulting in an additional \$5.5 Million annually, creating a global support structure and earned \$8 Million in warranty revenue, and gaining additional annual revenue of \$12 Million through early deliveries of systems.
- Reduced operating costs by \$250K per month by reducing operations errors, introducing innovation, and streamlining and enhancing
 processes, eliminating as much manual work as possible, resulting in a 33% increase in product availability.

Project Manager

MGE UPS Systems | 2000 - 2004

- \$1.0 billion annual revenue, provider of back-up power products and services, including uninterruptible power supplies (UPS), power conditioning equipment and power management software.
- Led new product development projects, consisting of reviewing statements of work (SOW's), specification analysis, activity sequencing, project plan development and creative problem solving for high KVA power quality equipment.
- Key contributor in developing/streamlining engineering development processes which significantly reduced time to market for new products.
- Developed robust training program for the mid-range product line that was implemented company wide.

Electronics Technician, USS Columbus, SSN-762

United State Navy, Naval Nuclear Power Program | 1991 – 2000

- Division Leading Petty Officer aboard a nuclear-powered fast attack submarine. Supervised seven reactor operators on the repair, alignment, calibration and troubleshooting on all systems vital to the operation and safety of the nuclear reactor.
- Awarded the Navy and Marine Corps Achievement Medal for leadership.
- Top rated Quality Assurance Inspector (QAI) for sub-safe and nuclear plant systems.
- Served as Nuclear Power Training Unit staff instructor, instructing enlisted and officer students at an operational reactor training facility in reactor theory, operations and reactor control instrumentation.

AREAS OF EXPERTISE

Directing highly technical teams in advanced software and hardware development projects

Delivering mission-critical projects on time and within budget

Earned Value Management and planning of complex projects

Technical Approach and Methodology (Criteria Four) (Attachments H and I)

1. Purpose / Background

This Proposal sets out the tasks, responsibilities, work scope and other items applicable for the deployment of a new cloud-based Enterprise Content Management solution ("ECM") to Metropolitan Water District, ("Metropolitan").

Metropolitan has many different systems and content sources that currently store and manage their documents across approximately 200 Business Units. Due to the multiple repositories and the number of documents that have grown over the years, the ability for Metropolitan Business Units / Users to easily locate and manage their documents has become more challenging over time. In addition, the amount of IT resources, processes and costs associated to manage and support the Business Units has become more burdensome and time consuming due to a decentralized content management implementation today.

Metropolitan is looking simplify each Business Unit's method to search, store and retrieve documents as well as centralizing most documents today into a single common platform across the enterprise. Metropolitan's goal is to take advantage of a centralized architecture utilizing Artificial Intelligence to improve efficiency and accuracy extracting specific metadata associated with each document and to improve business unit's processes and to accelerate the user's ability to quickly locate documents within the new Enterprise Content Management (ECM) platform. The end state vision will be a centralized intelligent document management repository integrated with enterprise search capabilities that will expand across other key Metropolitan's document content sources in order to improve users' ability to quickly find information, identify and cleanup stale or duplicated documents and to reduce overall IT costs and support.

2. Proposed Enterprise Content Management Solution Architecture

NathCorp is proposing a cloud-based solution utilizing Metropolitan's existing Microsoft SharePoint Online platform along with integrating Microsoft's Syntex "Intelligent Document Processing" to automate metadata extraction and improve business processes. Utilizing the Microsoft Cloud Platform, NathCorp's proposed solution will implement all components in Azure providing high availability, achieving 99.5% availability as well as providing geo-redundancy across multiple cloud data centers in the US. This availability and redundancy also apply to the storage tier down to the storage layer. The proposed solution is a low code implementation providing mostly out-of-the-box configurations with most customization focused on the required interfaces to specific content sources to meet enterprise search requirements. Microsoft SharePoint Online is a proven platform that provides enterprise-scale capabilities to meet business-critical needs including document management, search, and automating business processes to enable better informed decisions. Metropolitan will be able to take advantage of the following benefits utilizing their current SharePoint Online deployment:

- Reduce costs by leveraging existing SharePoint licenses.
- Utilize Azure Cognitive Search capabilities simplifying how people find and share information.
- Security is completely integrated with Metropolitan's Azure AD and M365 Groups. Any custom azure workflows can run under Metropolitan security context.
- With SharePoint lists and libraries, Metropolitan will be able to utilize Power Automate and Power Apps to create rich forms, workflows, and custom apps to improve and automate current processes including content archiving and ongoing ROT identification and remediation.
- Opportunities to integrate with other M365 applications (Teams, Exchange, PowerBI embedded, etc.) for future usage scenarios to improve collaboration and business processes.
- Support current Metropolitan browser standards and can be accessed from any device including mobile devices; the Microsoft SharePoint and Microsoft 365 apps are supported on iPhone and android devices.

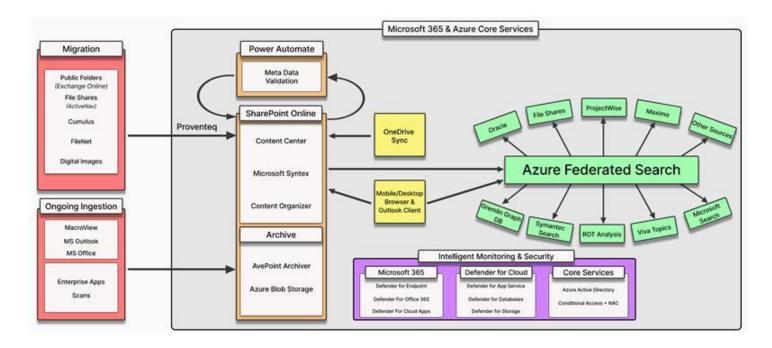
Microsoft Syntex is an Intelligent Document Processing (IDP) software solution that extracts and classifies documents (e.g., e-mail, text, Word, PDF, or scanned documents). The capabilities provided by Syntex meet the document

processing requirements per Metropolitan RFP. Below are key benefits that Metropolitan will be able to leverage with this solution:

- Completely integrates with SharePoint Online and Azure Security and existing availability architecture.
- Utilizes AI technologies computer vision, OCR, and ML to extract, analyze, categorize specific information from fields in scanned documents that learns and improves accuracy over time.
- Adds the extracted content from scanned images to SharePoint libraries to be available for use of existing SharePoint features (knowledge discovery and sharing, content governance, etc.) as well as automating workflows to improve business processes.
- Data extracted can be exported to external systems to support other existing business processes.
- Reduce customization of the end-to-end solution by leveraging Syntex out of the box capabilities

The foundation of NathCorp's proposed ECM architecture (diagram below) uses standard Microsoft Azure components to deliver the required cloud-based functionality; additionally, we have included the following suite of Microsoft cloud-based products to ensure our response represents a complete end-to-end solution based upon the requirements set out in the RFP. These components are all industry standard, off-the-shelf components, highly rated in their technology category by Gartner and other key rating agencies.

- Microsoft SharePoint Online enterprise document management system for storage and retrieval of enterprise content and supports robust offline access via the OneDrive Sync to support occasionally connected scenarios
- Microsoft Syntex for key intelligent document processing, interpretation, and categorization
- Microsoft Cognitive Services / Forms Recognizer / Azure OCR for AI and ML services to read and interpret Metropolitan's scanned documents.
- AvePoint Cloud Archiver to automatically archive images and data in addition to retrieving documents from the archive as needed. This Storage solution will also reduce storage costs utilizing Microsoft Azure Blob Storage
- Microsoft Azure Cognitive Search Includes federation to required content sources enabling users to expand search requests from a single view as well as provide an enhanced enterprise search experience that includes Symantec search capabilities.
- Microsoft Cosmos Gremlin Graph Database Provides a Master File catalog along with document relationships that will assist with supporting the ROT requirements.
- Microsoft Azure AD for security and identity management leveraging Metropolitan's existing architecture.
- Microsoft Azure AI Monitoring to monitor the health of the complete solution and use native AI capabilities to promote "self-healing" wherever possible.
- Microsoft Security Suite M365 G5 Defender suit of products providing a layer of protection across all cloud components, Microsoft Purview for compliance and Microsoft Sentinel to collect and analyze security logs across all cloud solution components.



3. Project Approach

This Proposal focuses on the services required to design, build, and deploy a cloud-based Enterprise Content Management solution based on Microsoft Technologies to address the key features and functionality set out in Metropolitan's RFP. The scope of work is provided in multiple Tasks in which some will run in parallel to accelerate the build phase with the goal to target a July 2023, start date as follows:

- Task #1 Discovery and Planning
- Task #2 ECM Build Phase
- Task #3 Document Migration Build Phase
- Task #4 Federated Search / Custom Interfaces Build Phase
- Task #5 Enterprise Security Build Phase
- Task #6 UAT / Production Deployment / Pilot
- Task #7 End User Adoption
- Task #8 Production Rollout
- Task #9 Program Management

This Proposal covers the expected services for the (9) Tasks as described above. Delivery of services for subsequent Phases will be covered in separate SOW(s).

3.1 Tasks and Activities will Include:

Task 1 - Discovery and Planning

NathCorp to staff a program manager and a team of Architects with expertise in SharePoint, Syntex, Platform Integration, Document Migration, Enterprise Search and Security to drive the overall solution requirements and proposed architecture in preparation to build the Enterprise Content Management Solution per Metropolitan's requirements.

In Scope

1. Discovery Phase

- Assess current Metropolitan Document Types, Content Management Sources, and current environment.
- Confirm use cases and requirements for the proposed ECM solution, including Portal layout / navigation, Document Migration, Intelligent Document Management, Business Processes, Enterprise Search including interfaces to other platforms, and overall security requirements.
- Confirm document types and meta data extraction for OCR / Intelligent document processing.
- Put together conceptual architecture for the proposed solution along with high-level migration approach.
- Get agreement on Minimum Viable Product that the solution needs to meet.
- Collect and document security and compliance requirements.

2. Planning Phase

- Put together a detailed design to support the proposed ECM solution components which include:
 - i. SharePoint Information Architecture including site topology, navigation, search, document management, retention policies and archiving.
 - ii. Syntex Architecture plus intelligent document processing workflow components
 - iii. Automation design using Power Automate; interface design using Power Apps
 - iv. Enterprise Search and Security including interfaces to non-Microsoft platforms.
 - v. Document Migration from the various platforms and to ensure File Links are maintain throughout migration in addition to identifying ROT
- Create a detailed master project plan to support the subsequent phases for the below Tasks.
- Identify and track potential risks associated with the proposed architecture and migration.

Assumptions

1. Metropolitan will make available required resources and provide necessary knowledge and access to systems in scope to support the discovery and planning phase.

Task 2 - ECM Build Phase

The ECM Build Phase focuses on the configuration and customization of SharePoint Online, AvePoint Archiving, and related components to support the solution. In this phase, the content management system will be configured based on the document management / records management requirements and policies derived from the discovery phase to support each Business Unit including archiving. In addition, intelligent document processing will be implemented utilizing Microsoft's Syntex to extract key metadata to be used for future business processes and automation taking advantage AI to improve overall accuracy.

In Scope

- 1. Establish test environment with required cloud components necessary to validate the design.
- 2. Configure Out of the Box SharePoint Online components and workflows to meet the solution requirements.
- 3. Develop customizations in SharePoint to meet use cases not covered by out of the box features such as custom SharePoint Templates.
- 4. Confirm Content Types and Sensitivity Labels
- 5. Use Syntex pre-built and customized forms to extract information and categorize metadata from documents. For each document type in scope, ingest and train the Syntex to extract the proper fields into metadata utilizing ML models. Confirm accuracy for each document type.

- 6. Conduct POC using Power Automate / Power Apps to demonstrate capabilities to improve existing business processes and potential automation scenarios based on the agreed upon use cases that the POC needs to meet.
- 7. Confirm storage requirements, archiving rules and document retention rules.
- 8. Implement and test a 3rd party Outlook Client plugin that will provide end users the ability to save emails as PDF files in SharePoint Online. Centrally configure and manage policies for all users.
- 9. Build, configure and implement the storage solution integrating with SharePoint Online and Azure Blob Storage in test environment.
- 10. Test and validate that the ECM solution meets the requirements for this specific Task.

Assumptions

- 1. All build work will be performed in Metropolitan's Test Environment
- 2. A 3rd party Azure SaaS Vendor "AvePoint" will be used for the archive / restore solution from SharePoint Online to Azure Blob Storage

Task 3 – Document Migration Build Phase

The ability to centralize, automate, and ensure integrity of document migration is critical to the success of this project. NathCorp will be using a 3rd party migration tool "Proventeq" that comes with built-in connectors to most of the content sources in scope for this phase of the project. Some connectors will need to be built during the project for certain content sources not supported today. The goal at the time of the production cutover phase is to have all content sources connectors in place under one tool for migration to provide centralized monitoring, reporting and status during the migration process in addition to providing the ability to assess all content sources and documents related to each Business Unit to establish a centralized inventory. By having a centralized inventory of all documents within each content source, we will be able to pre-stage the migration with the goal to migrate most of the documents prior to migrating the actual Business Units. During the production rollout phase, only changes to existing documents or new documents will be migrated reducing migration time and simplifying the validation steps and minimizing risks for a migrated Business Unit. This approach is particularly beneficial for enterprise grade migrations which involve terabytes of data and/or consolidation of multiple source systems. In addition to migrating documents from content sources to SharePoint Online, the Proventeq tool will also manage embedded file links to ensure integrity of links are updated appropriately as documents move to SharePoint Online

In Scope

- 1. Install and configure Proventeq tool and install connectors to supported content sources.
- 2. Build connectors for other content sources currently not supported in the tool.
- 3. Conduct discovery on content sources and provide analysis on the content targeted for migration to build an inventory.
- 4. Create migration rules in the tool from content source mapping to destination SharePoint Online
- 5. Test migration using a subset of typical document types and sizes with each targeted data source.
- 6. Confirm the integrity of file links during migration.
- 7. Confirm throughput speeds and potential migration times for estimations that the production rollout plan will take into consideration for migration of Business Units
- 8. Validate migration of documents into SharePoint Online
- 9. Confirm document processing rules identified which will be handled in Task2.

Assumptions

- 1. Metropolitan to ensure the test environment mimics production environment content sources targeted for document migration.
- 2. Targeted content sources in scope are: Shared Drives / ActiveNav (Metadata), FileNet v5.5, Cumulus v11, Digital Images (File Share) and Exchange Online Public Folders

- 3. We are assuming that the digital images targeted for migration will be on a shared drive.
- 4. To support existing metadata currently stored in ActiveNav, the ActiveNav metadata will be exported to a SQL database to be consumed by the migration tool.
- 5. Sufficient network bandwidth exists to enable timely data transfer to support approximately 45TB of data across 200 Business Units will be copied from Metropolitan's environment to SharePoint Online

Task 4 - Federated Search / Custom Interfaces Build Phase

Federated Search will enable users to find documents from the ECM and all content sources in scope. Users will be able to perform searches from their Windows Desktop search bar, Edge Browser or can use a custom UI that will provide more search capabilities. To support Federated Search across key platforms identified in the RFP, NathCorp will create custom interfaces to specific content sources to enable Metropolitan users to expand their search criteria from a common centralized interface across these additional platforms. The focus of the interface will be to support the specific search criteria to identify unique documents across the enterprise including the Enterprise Content Management platform SharePoint Online and provide the ability to retrieve the document.

In Scope

- 1. Develop custom Azure Search UI to provide advance search capabilities such as faceted search.
- 2. Connect Azure Cognitive Search to Azure Search which will enable users to perform federated search from their desktops, browsers, Office 365 Apps, etc.
- 3. Integrate Azure Search with SharePoint Online and Content Sources
- 4. Work with Metropolitan resources to confirm architecture and specifications for each content source interface.
- 5. Commence development and testing of each interface; development and testing will run in parallel for each interface to speed timeline to production.
- 6. Incorporate monitoring, auditing and reporting for each interface.
- 7. Integrate Azure Search with SharePoint Online and Content Sources via custom interfaces developed.
- 8. Test and validate end to end Search scenarios and confirm links to documents retrieval working across all content sources in a test environment.

Assumptions

- 1. Security context of a search may be limited depending on the content source's ability to handle security and Azure Identities.
- 2. NathCorp development team will utilize Azure DevOps as the development platform for requirements, source code management, and testing.
- 3. All custom development will use latest versions of .Net, Java, Security libraries and will go through periodic scans as part of the application lifecycle process using a 3rd party tool to ensure coding practices are in place and to identify potential security risks.
- 4. Up to 4 interfaces to content sources will be developed which currently include Oracle (PO's, Contracts), Bentley ProjectWise, ContractSafe, and Maximo
- 5. Links in Search results, when opened, will direct the user to the originating content source system where the document currently resides using that systems current method for opening and viewing documents.
- 6. Metropolitan users will have additional methods to perform federated search out of the box but must be on Windows 10 / 11 desktops, use Edge Browser as their standard and will be able to leverage other M365 services to perform search in addition to the custom search UI built during the project.
- 7. Files in the proposed ECM which includes SharePoint Online, and the Content Sources will be searchable through Azure Search but not all content in files will be searchable due to unsupported file formats.

8. Metropolitan is fine with NathCorp development team utilizing Open-Source solutions (primarily GitHub) if the source code is available for download and review. NathCorp will incorporate security practices as part of the application development lifecycle process.

Task 5 - Enterprise Security Build Phase

NathCorp will address the Metropolitan's Security requirements, as specified in the RFP, by utilizing the Microsoft Security Stack. Our aim is to extend existing Metropolitan Microsoft security footprint and use a single common identity source for the ECM solution. We can do more for less by avoiding the complexity of mixing multiple security vendors or increasing risk by deploying and integrating new disparate security products.

Microsoft 365 G5 Defender products will protect Identities, Endpoints, Applications, Cloud Apps, and Documents. Microsoft Purview will satisfy compliance requirements and manage the document lifecycle. Azure Defender for Cloud will protect cloud infrastructure required by the solution. Azure Sentinel will collect and correlate security logs and signals from all the components of the solution, and augment with a layer of automation and artificial intelligence.

NathCorp will implement Static Application Security Testing (SAST) in the development pipeline. Implementing a Continuous SAST program will discover weak and vulnerable code early in the development process. It will be much easier to remediate security vulnerabilities when code is still in development.

In Scope:

- 1. Implement and deploy Metropolitan security and compliance Requirements, as identified in discovery, in Microsoft 365 Defender, Microsoft Purview, and Azure Cloud Defender.
- 2. Meet regularly with the Metropolitan Security team to ensure alignment on the cloud configuration with the security and compliance requirements.
- 3. Work with SharePoint Online team (Task2) to ensure that the security configuration meets the requirements.
- 4. Work with the Enterprise Search team (Task4) to ensure SSO and security interface with content sources are in place correctly.
- 5. Test and validate security settings meet Metropolitan's security requirements in test environment across all Tasks.

Assumptions

- 1. SAML 2.0 and up, but OAuth 2/Modern Auth will also be acceptable.
- 2. The Azure AD identity will be used for Security controls and access decisions in the destination data stores, such as Oracle and GIS
- 3. M365 G5 licenses will be procured for all users of the ECM solution.

Task 6 – UAT / Production Deployment / Pilot

After the last Sprint development/Stabilization activity concludes, the code will be baselined, packaged, and deployed to the UAT environment by NathCorp. This environment will be used by Metropolitan for their Final Release UAT. During UAT, NathCorp will work with Metropolitan UAT team to correct and remediate issues identified and incorporate changes for final testing. At UAT Sign off, NathCorp will proceed to package and deploy the ECM solution into Metropolitan's production environment and will commence a production pilot with a subset of Business Units to

validate migration of the Business Unit's related documents and to confirm the end-to-end ECM Platform and Federated Search solution is ready for production rollout to the remaining Business Units.

In Scope

- 1. Perform end to end solution validation test to confirm MVP.
- 2. Deploy baseline solution to UAT environment.
- 3. Metropolitan security team performs validation of security requirement and provides approval.
- 4. Initiate formal UAT validation and remediate identified issues with the goal to get UAT Signoff confirming that the solution meets the MVP requirements.
- 5. Create deployment and communication plans.
- 6. Prepare production environment and deploy ECM solution.
- 7. Conduct production pilot with a small subset of Business Units to include migration of documents.
- 8. Perform final stabilization and prepare for production rollout.
- 9. Continue up to 90% document migration to SharePoint Online for all Business Units to minimize the product cutover times.
- 10. Finalize production cutover plan for remaining Business Units yet to be migrated.

Assumptions

- 1. NathCorp and Metropolitan to agree on final test cases to support UAT exercise and signoff.
- 2. Metropolitan to provide NathCorp resources proper access in production to deploy and support the ECM solution.
- 3. Metropolitan to identify a subset of Business Units to support the production pilot that will be completely migrated to the ECM platform.

Task 7 – End User Adoption

Prior to production release and migration of Business Units, it will be critical to ensure Metropolitan's users migrating to the new ECM platform are prepared and ready to use the system. NathCorp will use a Microsoft Certified Training Partner "Brainstorm" to deliver the training to Metropolitan's Business Units and users. Much of the training curriculum for the new ECM Platform will be already intact that is readily available through Brainstorms Platform. Some additional training will be tailored by working with assigned resources from Metropolitan's End User Adoption Team to determine key usage scenarios that need to be included in addition to the material already present in Brainstorms Platform.

Included with the training are:

- 1. All Training will be delivered remotely through Brainstorms Platform which includes a vast repository of training material tailored Microsoft M365 specifically SharePoint Online, OneDrive, Teams, Exchange etc.
- 2. Custom content will also be provided with up to 10 (1-2min Videos) or up to 10 PDFs that will be tailored to the key ECM workflows that are not included in the standard curriculum and working with the end user adoption team.
- 3. Two custom-recorded training events are included. Content to be determined working with Metropolitan's end user adoption team.
- 4. Up to 10 Live instructor training sessions are included. Content to be determined working with Metropolitan's end user adoption team.

Task 8 - Production Rollout

After successful completion of the production pilot with key Business Units, NathCorp will prepare to migrate the remaining Business Units to the new ECM platform including migration of documents. NathCorp will provide a

deployment team that will manage the migration and configuration changes to support each Business Unit. In addition, during this migration period, NathCorp will provide production support with a team of consultants to address issues that may surface during migration or with the ECM platform throughout the duration of this phase of the project. Preparation work will also be performed for each Business Unit prior to migration. An assessment of each Business Unit will be performed to confirm all documents and content sources targeted for migration and to confirm roles and access rights to the ECM Platform.

In Scope

- 1. Finalize communication plan.
- 2. Confirm migration schedule and migration sequence for all Business Units
- 3. Perform preparation tasks associated for each Business Unit that includes all documents to be migrated and the content sources in use along with the specific configuration settings that will need be in place with the ECM Platform to support the migration.
- 4. Initiate communication to Business Units targeted for migration.
- 5. Coordinate and conduction migration tasks for each Business Unit
- 6. Update migration of documents to capture only new documents and changed documents from the previous migration.
- 7. After each migration, perform validation exercise to confirm readiness prior to cutover for each Business Unit
- 8. Provide production support during migration throughout the Production Rollout Phase.

Assumptions

- 1. Conduct production migration over agreed timeslots for each Business Unit
- 2. Approximately 60TB of migrated documents will be added to SharePoint Online during migration.
- 3. Each Business Unit will need to provide a very small subset of resources (Power Users, Users) to validate the success of each migration working with the NathCorp team.

Task 9 – Program Management

NathCorp to staff multiple project managers in order run the above services Tasks in parallel. The lead project manager or program manager will work jointly as a "Leadership Team" with the assigned Metropolitan Product Owner and IT Project Manager, to deliver the overall Enterprise Content Management Solution and related NathCorp resources will create and manage the following artifacts:

In Scope

- 1. Program Manager Responsibilities
 - a. Primary point of contact for the Metropolitan team
 - b. Responsible for managing and coordinating the overall project delivery working with the assigned Metropolitan Project Manager
 - c. Coordinates and communicates with Metropolitan PM to facilitate workshops, meetings, etc.
 - d. Develops and owns the detailed master project plan.
 - e. Owns status reporting, tracking issues and risks; conducts weekly status meetings.
 - f. Contributes to communications with Metropolitan stakeholders; conducts monthly stakeholder meetings.
 - g. Responsible for resource allocation, risk management, project priorities, and identifying resource needs.
 - h. Collaboratively works with NathCorp project managers to other Tasks in the project to align with the master project plan, schedule, etc.

Assumptions

- 1. Metropolitan to provide a full-time project manager who will be responsible for allocating required Metropolitan resources needed for this project.
- 2. Metropolitan to make available technical resources as needed for each Task throughout the project.

3.2 Project Deliverables

The following Deliverables will be produced during the project.

- 1. Requirement Documents and conceptual architecture
- 2. Detail Design that includes architecture and diagrams of the proposed solution
- 3. Detailed project plans
- 4. Configuration documents and "As Built"
- 5. Deployment Guide that provides the steps to install and configure the production environment.
- 6. Development of Administrators Guide and Operational Procedures
- 7. Updated Azure Costing Models
- 8. Provide ongoing knowledge transfer to the Metropolitan team.
- 9. Implement Training Content tailored to the ECM solution.

3.3 General Project Assumptions

Services will be delivered based upon the following assumptions:

- 1. Metropolitan will provide a full-time project manager to work with the NathCorp Program Manager. The Metropolitan project manager will own the internal Metropolitan communication plan and coordination of Metropolitan resources required during the project.
- 2. Metropolitan will make available required resources and subject matter experts needed throughout the project in a timely manner.
- 3. Metropolitan will provide proper credentials and access to required systems in their environment to NathCorp resources.
- 4. The network connectivity / utilization between Metropolitan on-premises infrastructure and Azure are sufficient to support migration transactions.
- 5. Security (Authentication and Authorization) are already in place; NathCorp solution will utilize Metropolitan existing Azure AD
- 6. Metropolitan systems and applications will provide the necessary data feeds and performance to ensure the NathCorp ECM solution can perform to the required SLAs.
- 7. Without understanding Metropolitan's current SharePoint usage and performance characteristics, changes may be required to improve overall performance.
- 8. Only the English Language will be supported for this first release.

3.4 Project Out-of-Scope

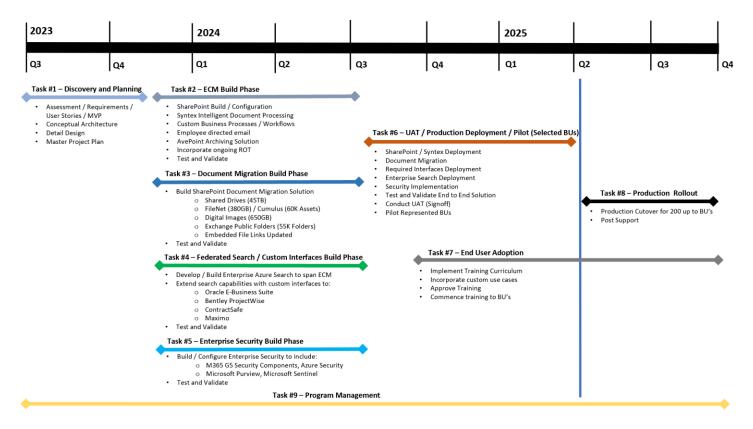
The following items are specifically excluded from the services set out in this Proposal.

- 1. Configuration of third-party applications and Devices / Network Devices (firewalls, switches, port rules, etc.)
- 2. Customizations or development to any Metropolitan Applications or Systems only interfaces to specific systems identified in this Proposal will be developed.
- 3. Work on any Metropolitan environment issues
- 4. Analysis or changes to any applications; implement or configure applications within Metropolitan's environment.
- 5. Purchase of any software licenses or services not specifically identified as included in this RFP response.

3.5 Proposed Estimated Timeline

NathCorp believes that this will be a multi-year project to meet the objectives and requirements outlined in Metropolitan's RFP and to ensure that the ECM Platform is a fully capable production ready solution to support the Business Units. Below are the proposed estimated timelines for each Task based on the information provided in Metropolitan's RFP. Although this approach and duration span multiple years, we believe it is a prudent approach that will substantially reduce overall project risk, ensure minimal to no production impact, and create the best opportunity for project success and cost management.

Throughout the project, NathCorp will look for opportunities to run many Tasks in parallel to help expedite the delivery to production. Once NathCorp has a better understanding of Metropolitan's environment and has confirmed detailed requirements and success criteria after Task #1 Discovery and Planning phase, changes may be made to the estimated timeline.



ATTACHMENT H – TECHNOLOGY INFRASTRUCTURE QUESTIONNAIRE

Most Metropolitan's Microsoft systems are listed below. Metropolitan is currently moving from a Microsoft G3 to G5 license.

Respondent: Complete the tables below.

	Certifications	Brief Description of Implementation Experience
SharePoint 365	MCTS; MS Gold Collaboration;	Over 15-years SharePoint implementation experience with
	MS CAPP Program Member	enterprise clients
Teams 365	MS Gold Collaboration	Over 5 years implementation experience with enterprise clients
Teams Chat	MS Gold Collaboration	Over 5 years implementation experience with enterprise clients
OneDrive for Business	MS Gold Modern Work	Over 10 years implementation experience with enterprise clients
Azure Right Management Services	MS Gold Security	Over 5 years implementation experience with enterprise clients
Azure Information Protection	MS Gold Security	Over 5 years implementation experience with enterprise clients
Azure Purview	MS Gold Security	Over 5 years implementation experience with enterprise clients
		(This product suite has recently been re-named Purview)
Digital Rights Management	MS Gold Security	Over 5 years implementation experience with enterprise clients
Security and Compliance Center	MS Gold Security	Over 5 years implementation experience with enterprise clients
eDiscovery Platform	MS Gold Security	Over 5 years implementation experience with enterprise clients
Exchange Server and Outlook client	MS Gold Messaging	Over 10 years implementation experience with enterprise clients

MWD Phase 1 Priority	System	Cloud/ Hosted	Standard or Custom Integration?	Standard Integration provided by	Custom Integration Description	Integration Cost
Х	Oracle EBS – accounting	Х	Standard	NathCorp	We expect to use standard APIs for this connection; however, depending upon the level of application customization, the interface may require coding	See cost proposal
Х	Oracle PeopleSoft HRIS	Х	Standard	NathCorp	We expect to use standard APIs for this connection; however, depending upon the level of application customization, the interface may require coding	See cost proposal
Х	Bentley ProjectWise project management	Х	Standard	NathCorp	We expect to use the Bentley Web Services Gateway for this connection	See cost proposal

MWD Phase 1 Priority	System	Cloud/ Hosted	Standard or Custom Integration?	Standard Integration provided by	Custom Integration Description	Integration Cost
	Bentley		Standard	NathCorp	We expect to use the Maximo Rest API	See cost
	MicroStation 3D			-	for integration	proposal
	CAD					
Х	Maximo					
	maintenance					
	management					
	Sensis – web					
	content					
	management					
	Esri ArcGIS Pro,					
	ArcMap Desktop,					
	and ArcMap GIS					
	Asset Management					
	– GIS					
	Engineering has an					
	additional 40+					
	systems for which					
	custom integration					
	will be considered					
	on a project basis.					

Non-Microsoft content related systems in-use at Metropolitan are listed.

System	Certifications	Brief Description of Implementation	Notes
		Experience	
Nintex Workflow and EForms		5 years of experience deploying,	
		administering, training and	
		developing Nintex Workflows and	
		Forms for a large Financial Services	
		Firm	

Bentley ProjectWise	Implemented and connected to ProjectWise as part of various	
	projects with financial/banking clients	
Gimmal Discover		
Gimmal Physical		
ProofPoint Cyber Security	10+ experience working with Proofpoint Email Security Protection.	We are familiar with the full Cyber Suite.

ATTACHMENT I – ECM BUSINESS REQUIREMENTS QUESTIONNAIRE

Respond to the Metropolitan's business requirements in the tables below. Metropolitan wishes to stay within the native Microsoft ecosystem as much as possible yet understands that third-party solutions may provide a better solution and allow users to manage content and/or processes more efficiently.

- In the column "Fulfilled by Standard Microsoft Functionality" briefly respond to the stated requirement with the best approach to fulfilling the requirement using standard Microsoft functionality available with the G5 license.
- In the column "Fulfilled by Third Party Solution or customization" briefly respond to the stated requirement with the best approach to fulfilling the requirement using third party solution Respondent or, if necessary, with custom development.
- In the column "Comments" add any additional information which would help Metropolitan determine the best approach to meeting the requirement.

Group	Question	Business Requirement	Fulfilled by Standard	Fulfilled by Third Party	Comments
	Number		Microsoft Functionality	Solution or customization	
Capture	1.	While reliance on paper has been greatly reduced	1.1 Device Vendors built-in		
		across Metropolitan, there will be areas that will need	save to SharePoint feature		
		an efficient means of scanning to a SharePoint Library.	1.2 Syntex, Azure Cognitive		
		 Describe Respondent's approach for ad- 	Services		
		hoc/desktop scanning; Adobe Acrobat Pro is in use in	1.3 Library selection is		
		some areas of Metropolitan but not all.	based on users permissions		
		Discuss Respondents approach to ad-hoc desktop	1.4 Syntex will provide		
		scanning.	ability to extract metadata		
		2. Scanning and metadata assignment will be as	from scanned documents		
		automated as possible with data extraction from Oracle			
		or other business systems. Users will be forced to			
		complete required metadata.			
		Discuss Respondents approach to automating metadata			
		assignment.			
		3. Scanning interface will prompt user with a list of			
		relevant ECM libraries from which to choose the			
		content destination and default it upon future scanning			
		actions.			
		Discuss Respondents approach to library selection.			
		4. Metropolitan will need fast, simple, one-step,			
		purpose-specific scanning (such as packing list and BOL			
		scanning at a receiving dock), which may be the same			
		as general use ad-hoc scanning or different.			
		Discuss Respondents approach to purpose-specific			
		scanning.			

Group	Question	Business Requirement	Fulfilled by Standard	Fulfilled by Third Party	Comments
<u> </u>	Number		Microsoft Functionality	Solution or customization	
Capture	2.	User-directed email management from the Outlook		MacroView DMF will be	
		client presents a challenge for most staff across		deployed to the required	
		Metropolitan. Some staff use print-to-PDF as a means		users desktops.	
		of saving emails to shared drives or SharePoint; others		MacroView engineers will	
		save as a native MSG or HTML file.		assist with the planning	
		As assistant collections are record to ECNA a simple		and testing of the	
		As content collections are moved to ECM, a simple,		deployment via Microsoft	
		comprehensive method of adding email messages		Intune or other enterprise	
		and/or attachments to a library will be crucial for		software management	
		effective email management.		platform.	
		Naturalitas annices de fallencies Foreil formations		MacroView proposal	
		Metropolitan requires the following Email functions;		includes 16 hours of	
		Respondent will discuss each item.		support. Additional	
		User will be prompted with a list of relevant Comparison from which to all process the state of the s		support can be purchased	
		libraries from which to choose where to store content.		if needed.	
		2. User will be prompted to complete required ECM			
		library metadata.			
		3. User will be prompted whether to save			
		attachments with the email.			
		4. User will be given the option to select which			
		attachments will be saved.			
		5. User will be given the option to save attachments			
		to a library with or without the email message.			
		6. ECM will recognize when an email has been			
		previously added to the library and the user will be			
		prompted so they can decide whether their version of			
		the email is unique and needs to be saved.			
		7. Metropolitan prefers emails to be stored in PDF			
		file format when declared as records. Respondent will			
		describe how messages will be converted from MSG to			
		PDF or PDF-A upon record declaration.			
		8. Metropolitan desires to prohibit saving emails as			
		HTML.			
		9. User will be provided the option to convert email			
		and/or attachments to PDF or PDF-A when saving to			
		SharePoint.			
		11. If Respondent recommends a third-party solution			
		for user-directed email management, provide a brief			

Group	Question Number	Business Requirement	Fulfilled by Standard Microsoft Functionality	Fulfilled by Third Party Solution or customization	Comments
	Number	statement of why Respondent prefers the vendor, describe Respondent relationship with the vendor and whether Respondent implements and supports Vendor solution.	Wild Osoft Functionality	Solution of customization	
Capture	3.	When new content is added to SharePoint it will be important to identify duplicates between content existing in SharePoint and new content being added. 1. How will Respondent meet this requirement? 2. What data will be presented to the user to help them determine whether to add the new content?		that will add or update	Document owners will be presented with the list of duplicate documents along with the list of documents that reference those documents
Import	4.	When shared drive content is added to SharePoint it will be important to identify duplicates between content existing in SharePoint and content coming from shared drive(s). How will Respondent meet this requirement?		that will add or update	Document owners will be presented with the list of duplicate documents along with the list of documents that reference those documents
Import	5.	A significant backfile conversion of physical records was conducted across Metropolitan as stated in the introduction. Metropolitan plans to move these files and metadata to SharePoint using the following process: 1. The images will be provided on external drives. 2. Metropolitan will load images and metadata to shared drives. 3. Metropolitan will clean up the files/metadata if needed. 4. Active Nav will be used to complete the migration to SharePoint. Respondent will offer comments on this approach, or a better approach, if available.			This approach seems acceptable
Import	6.	Metropolitan wants Respondent to assist with the import of existing content from shared drives. 1. What methods does the Respondent use to utilize existing data (such as taxonomies, MIP labels, folder names, file names, parsing folder and/or file names etc.) when migrating into SharePoint? (For instance, HR Benefits' paper files had 6 tabs; these tabs are			Built in migration reports and QA validation

Group	Question Number	Business Requirement	Fulfilled by Standard Microsoft Functionality	Fulfilled by Third Party Solution or customization	Comments
	Training Co	document group values in the scanned metadata but should be content types in SharePoint.) 2. Does the Respondent have a method of migrating content while ensuring the integrity of inter-file links? 3. How do the Respondent migration tools ensure 100% file import accuracy?	Wild osote Functionality		
Import	7.	With file share ingestion, Metropolitan may consider	Microsoft Syntex, Microsoft 365 Governance		We will be partnering with Microsoft on this engagement and will have access to the product teams in case of any issues.
Import	8.	Does Respondent have the capability to render documents into PDF or PDFA during ingestion based on pre-established business rules? For example, any document with a retention rule of 'permanent' or 'over 20-years' will be rendered to PDF-A.	Microsoft Power Automate	Encodian Flowr	
Import	9.	Media work with very large files (3D models, satellite imagery, predictive models, etc.); upload/download speed to any cloud system has been an issue. What is Respondent's experience with managing very large files within M365? Does Respondent recommend a hybrid solution for very large files?	documents stored in SharePoint is 250 GB. In addition, Azure Blob Storage can store very large files in the TB range.	data storage requirements	Meta data can be stored in SharePoint with a "Link to File" pointer to Azure Blob Storage if required. NathCorp to work with Metropolitan on specific use cases, testing and configuration adjustments. We have extensive experience with managing and moving large files over low bandwidth, unreliable connections.
Viewer	10.	What methods are used by the Respondent to display photos within SharePoint in a user-friendly way, such the grids used by photo apps?			NathCorp will work with Metropolitan on specific use cases and provide recommendations as needed.
Viewer	11.	Metropolitan will apply DRM restrictions and user restrictions for their photo collection and document which are available to the public. Photographic material includes: Historical material dating to 1927, engineering	Azure Information Protection		Documents and photos can use AIP labels. More controls are available if they are in the latest format.

Group	Question	Business Requirement	Fulfilled by Standard	Fulfilled by Third Party	Comments
	Number	and construction projects, ribbon cutting ceremonies, etc.	Microsoft Functionality	Solution or customization	
		Discuss Respondent approach to the use of DRM to limit access to content.			
Viewer	12.	Standard row and column library presentation will not be appropriate for all users, especially when data will be merged from business systems or there are more data/columns than can be easily viewed. A dashboard view will be a better presentation, i.e., similar to traditional ECM systems' user interface.			NathCorp will work with Metropolitan to understand user interface requirements and develop custom SharePoint SPFx webparts and pages to satisfy identified requirements
		Has Respondent created dashboard views in place of row/column view? If so, discuss.			
Viewer	13.	Engineering using Bluebeam Revu for review, redlining, and annotations of drawings. There is interest in annotation across Metropolitan. Note: Metropolitan has 300 licenses of Adobe Acrobat Pro which are allocated to users.		Acrobat App SharePoint Integration	
		Discuss Respondent's options for annotating images, scan to PDF images, born digital documents including PDF, Word, Excel, and PowerPoint.			
Viewer	14.	Metropolitan for public documents. How has Respondent met section 508 requirements for	Power Automate Flows to automatically review pdfs identified for the public for missing tags	Adobe PDF Services API	
Search	15.	The foremost benefit to be derived from ECM will be Federated Search across content in most Metropolitan repositories and systems. Search will respect access rights and sensitivity labels (sensitivity labels exist in the ActiveNav database for content that was touched during the file share reorganization). Metropolitan envisions the following content storage locations will be included in the federated search: SharePoint on-premise SharePoint 365 (cloud) including Teams sites	Azure Cognitive Search	Connectors	We believe the architecture diagram provided in the Approach section, as well as the details in Task 4 set out our proposed approach to Enterprise Search as well as the expected end user benefits.

Group	Question	Business Requirement	Fulfilled by Standard	Fulfilled by Third Party	Comments
	Number		Microsoft Functionality	Solution or customization	
		 ProjectWise 			
		ContractSafe			
		 Oracle (POs, contracts, etc.) 			
		Possibly PeopleSoft HRIS			
		Possibly Maximo			
		Discuss Respondent approach to Federated			
		searching, including the above list, and any limitations			
		that may exist.			
		Describe Respondent approach for search to			
		include robust, full-text capability; searches must allow			
		for limiting search scope using one or more metadata			
		datum. Full-text search will include text in PowerPoint			
		slides. Full text search will honor all security rules.			
		Respondent will discuss any limitations of search			
		as it relates to SharePoint site collections, sites,			
		libraries, on-premise and cloud SharePoint sites, and			
		full text search capabilities.			
Search	16.	•	SharePoint views should be		
		items. Metropolitan searches could easily exceed this	configured in order to limit		
			documents listed in any		
		for critical data.	particular view		
		1. How does the Respondent address the 5,000-item			
		limit?			
		2. Does Respondent have search-within-results as an			
		option?			
Search	17.	Metropolitan users like their shared drives. While they	•		
			Metropolitan to identify		
		to content, they want the ability to browse folder	use cases for users finding		
		,	content and will combine		
		drives. As a philosophy, Metropolitan wants the user to	-		
			enterprise search and		
			custom pages to provide		
			the most efficient		
		· · · · · · · · · · · · · · · · · · ·	approaches for users to		
		· · · · · · · · · · · · · · · · · · ·	find content.		
		SharePoint and to be able to collaborate on the			
		creation and editing of documents with both internal			
		and external stakeholders.")			

Group	Question Number	Business Requirement	Fulfilled by Standard Microsoft Functionality	Fulfilled by Third Party Solution or customization	Comments
	Number	Respondent will discuss user navigation as described above.	Wilcrosoft Fullctionality	Solution of Customization	
DRM	18.	Metropolitan will require expiring content links for both internal and external collaboration. Respondent will discuss how expiring links are managed and any issues Respondent has identified with using expiring links.	notifications and		
Content Classification	19.	to assign Content Types and Sensitivity Labels when ingesting content into SharePoint. Metropolitan has assigned sensitivity labels and has classified most content as described in the introduction. Metropolitan developed an enterprise-wide classification scheme (taxonomy) as part of the shared drive cleanup; the classification will be used by the AI solution to fine-tune autoclassification assignment. The Content Type and Sensitivity Labels assignment will be used for search and for the application of record retention policies.	POC's on top of Microsoft Syntex for both auto-		
Library Services	20.	MWD will require users to complete required metadata fields when adding content to the library. Discuss how Respondent will force metadata completion,	NathCorp will work with Metropolitan to identify the best approach for handling missing meta data which may include email/MS Teams notifications and the use of Adaptive Cards for efficient data capture		
Library Services	21.		Azure Cognitive Search	Custom Gremlin Graph database to keep track of document relationships	

Group	Question Number	Business Requirement	Fulfilled by Standard Microsoft Functionality	Fulfilled by Third Party Solution or customization	Comments
		Discuss any issues Respondent sees with this approach.			
Library Services	22.	Metropolitan will need renditions of files in some libraries; for instance, rendering Word to PDF where the PDF will be linked to the Metropolitan web site or rendering records with 'permanent' retention to PDF/A. Describe Respondent's approach to automating	Microsoft Power Automate Flows	Encodian Flow for PDF/A-x generation	
		document renditioning based on business rules; respond to each item below. 1. Metropolitan desires an integrated rendition engine to convert any digital content to a new format (minimum of PDF/A, PDF/A-1, PDF/A-2, PDF/A-3, PDF/E, TIFF, TIFF Color, JPEG). If not integrated, provide			
		 approach to renditioning. 2. Renditions may be converted into one or more formats; e.g. PDF and PDF/A. 3. Renditions rules will be defined uniquely for each ECM library. 			
		 System will allow for the designation of internal and external (public facing) rendition file formats. System will provide rules for rendering from original file formats to new format triggered upon record declaration. System will synchronize versions of original 			
		documents and renditions when original document is edited.			
Library Services	23.	 Major and minor versions tied to retention rules and access rights which are variable by major/minor version and by site/library. 	NathCorp will work with Metropolitan to identify use cases and requirements and will		
		' '	deliver Microsoft Power Automate Flows to support those requirements		

Group	Question Number	Business Requirement	Fulfilled by Standard Microsoft Functionality	Fulfilled by Third Party Solution or customization	Comments
	100111001	Respondent will discuss each of the above items.	, and a second residence of the second residence of th		
Integration	24.	•	Azure Cognitive search		
		 Validate metadata entered when new content is added to the library. Retrieve and auto-populate metadata fields when adding new content. Retrieve metadata fields to populate a user dashboard (see item 12). With GIS, retrieve content when user selects point or polygon on a map layer and retrieve all information associated with that point or polygon. Query data as part of a federated search (See item 15). 			
		Respondent will discuss each of the above items.			
Off-line Content	25.		OneDrive Sync to SharePoint Online folders		

Group	Question	Business Requirement	Fulfilled by Standard	Fulfilled by Third Party	Comments
	Number	2. Briefcase will store encrypted data.	Microsoft Functionality	Solution or customization	
Records Management	26.	Metropolitan currently uses Gimmal Physical to manage physical records collections and Legal uses Gimmal Discovery. Metropolitan is aware of Gimmal Records Manager as a complement to native SharePoint information governance capabilities. Does Respondent with experience implementing			We do not have this experience; however, we believe an alternate approach may be viable after discussion with Metropolitan
		Gimmal Records Manager? Does Respondent recommend using Gimmal Records Manager and if so, why?			
Records Management	27.	Metropolitan has rapidly expanded the use of Teams over the last 2 years. Metropolitan needs Teams to conform to all governance rules. Please describe Respondent implementation experience configuring Teams to fulfill IG/lifecycle requirements.			We have extensive experience in Teams implementations of various types and have conducted several project to review Teams Governance and how it should be modified as Teams usage has expanded and evolved.
Records Management	28.	1 11 0 0	SharePoint Records Management	AvePoint Archiver	Preservice may offer an option for this requirement. Further discussion regarding Use Case is required
		Archival Information System (OAIS) Reference Model (ISO 14721).			
Accessibility	29.	Some of the data that will reside in the ECM requires	Built-in data redundancy provided by Microsoft 365 & Azure		
		What method would the Respondent recommend for accommodating 24/7/365 access should an event occur			

Group	Question	Business Requirement	Fulfilled by Standard	Fulfilled by Third Party	Comments
	Number		Microsoft Functionality	Solution or customization	
		that isolates a location from communication networks			
		(i.e., earthquake).			
Infrastructure	30.	All changes to user rights will be audited.	Azure AD Audit logs		
			MS Purview Logs		
		Respondent will state compliance.	Azure Sentinel		
Infrastructure	31.	Access Rights management will be delegable.	SharePoint Online and		
			Microsoft 365 permissions		
		Respondent will state compliance.	·		
Infrastructure	32.	The Legal and Survey departments will require			We have experience with
		on-premise SharePoint sites. Depending on the			SharePoint Hybrid as part of
		response to questions #9 (re. very large files), other			SharePoint on premise to
		areas of Metropolitan may also require on-premise			SharePoint online migrations.
		sites.			
		Discuss Respondent experience with hybrid SharePoint			
		environments.			
Contract	33.	Metropolitan stores groupings of contracts in the			We have limited experience
Management		following systems:			with contract management in
		 Oracle Financials – procurement-based contracts 			SharePoint; we understood this
		·			was not in scope for this effort.
		 ProjectWise – construction contracts 			·
		• ContractSafe – all other "miscellaneous" contracts			
		such as grants, water service connections,			
		confidential legal agreements, easements, etc.			
		Metropolitan prefers a contract management system			
		(CMS) built on SharePoint. Metropolitan has already			
		extracted basic metadata for contracts that reside in			
		ContractSafe (start/end dates, key contact,			
		counterparty, contract type). Contracts stored in Oracle			
		will remain in place.			
		Respondent will discuss their experience with Contract			
		Management in SharePoint; include in-house or third-			
		party solutions Respondent supports.			
Board Letters	34.	Respondent will describe any experience with	Worked with Geraldine		
			Walters		
		process in SharePoint or other software.			

Question	Business Requirement	Fulfilled by Standard	Fulfilled by Third Party	Comments
Number			Solution or customization	
35.	Metropolitan currently uses FileNet Content Services v5.4 primarily for engineering materials. FileNet conversion to SharePoint will be a priority. 1. Does Respondent have experience converting FileNet Content Service v5.4 to M365 SharePoint? If so, please briefly describe experience. 2. FileNet content was processed through an OCR engine over 2 decades ago. Metropolitan will take advantage of modern OCR to reprocess FileNet content either as part of the conversion effort or after importation into SharePoint. Does Respondent offer options for OCR of the content as part of FileNet conversion services? How would Respondent	Microsoft Syntex		We have significant experience with data migration and have some familiarity with FileNet. We suggest Metropolitan consider a "re-OCR" process as part of document ingestion to ensure it aligns with current formats, etc.
36			Provented Migration	
	Public Folders; there are approximately 55,000 Public Folders on Exchange Online. Typical Public Folder usages are team calendars, shared mailboxes (mostly to receive and process various requests), and email archiving. Some of the current challenges with Public Folders are searching, permission management, and ease of use. Metropolitan will migrate relevant Public Folders to M365 Groups. Discuss Respondent experience migrating Public Folders to M365 Groups, to SharePoint or another platform.		Accelerator	
37.	and management of our extensive collection of on-line technical manuals; this product has been sunsetted. What experience does the Respondent have implementing on-line manuals in SharePoint or another product? Respondent may request the Metropolitan requirements document if more information is desired	application will synchronize, distribute and update many file types and was initially developed for Hawaiian Airlines to manage, distribute and update electronic Flight		
	35. 36.	35. Metropolitan currently uses FileNet Content Services v5.4 primarily for engineering materials. FileNet conversion to SharePoint will be a priority. 1. Does Respondent have experience converting FileNet Content Service v5.4 to M365 SharePoint? If so, please briefly describe experience. 2. FileNet content was processed through an OCR engine over 2 decades ago. Metropolitan will take advantage of modern OCR to reprocess FileNet content either as part of the conversion effort or after importation into SharePoint. Does Respondent offer options for OCR of the content as part of FileNet conversion services? How would Respondent approach OCR of existing FileNet content? 36. Metropolitan has an extensive collection of Exchange Public Folders; there are approximately 55,000 Public Folders on Exchange Online. Typical Public Folder usages are team calendars, shared mailboxes (mostly to receive and process various requests), and email archiving. Some of the current challenges with Public Folders are searching, permission management, and ease of use. Metropolitan will migrate relevant Public Folders to M365 Groups. Discuss Respondent experience migrating Public Folders to M365 Groups, to SharePoint or another platform. 37. Metropolitan's uses a software product for the creation and management of our extensive collection of on-line technical manuals; this product has been sunsetted. What experience does the Respondent have implementing on-line manuals in SharePoint or another product? Respondent may request the Metropolitan requirements document if more information is desired	Number Metropolitan currently uses FileNet Content Services v5.4 primarily for engineering materials. FileNet conversion to SharePoint will be a priority. Does Respondent have experience converting FileNet Content Service v5.4 to M365 SharePoint? If so, please briefly describe experience. FileNet Content service v5.4 to M365 SharePoint? If so, please briefly describe experience. FileNet content was processed through an OCR engine over 2 decades ago. Metropolitan will take advantage of modern OCR to reprocess FileNet content either as part of the conversion effort or after importation into SharePoint. Does Respondent offer options for OCR of the content as part of FileNet conversion services? How would Respondent approach OCR of existing FileNet content? Metropolitan has an extensive collection of Exchange Public Folders; there are approximately 55,000 Public Folders on Exchange Online. Typical Public Folder usages are team calendars, shared mailboxes (mostly to receive and process various requests), and email archiving. Some of the current challenges with Public Folders to M365 Groups. Discuss Respondent experience migrating Public Folders to M365 Groups, to SharePoint or another platform. Metropolitan's uses a software product for the creation and management of our extensive collection of on-line technical manuals; this product has been sunsetted. What experience does the Respondent have implementing on-line manuals in SharePoint or another platform. What experience does the Respondent have implementing on-line manuals in SharePoint or another platform. What experience does the Respondent have implementing on-line manuals in SharePoint or another platform. What experience does the Respondent have implementing on-line manuals in SharePoint or another platform.	Microsoft Functionality Solution or customization

Group	Question	Business Requirement	Fulfilled by Standard	Fulfilled by Third Party	Comments
 	Number		Microsoft Functionality	Solution or customization	
			NOTAMs and other critical		
			pilot documents. The		
			application is designed		
			specifically for low		
			bandwidth, highly		
			regulated environments		
Document	38.	Metropolitan Engineering and Project Management	Microsoft Azure Gremlin		
Collections		uses collections of large files to propagate complex	Cosmos Graph Db to keep		
		reports. There can be 100s of files, many of which have	track of document		
		links. Gathering and managing the document collection	relationships		
		to ensure the child documents and parent document			
		are preserved is a headache.			
		Discuss Respondent's approach to address this issue.			
Digital Asset	39.	Artificial intelligence should be available to identify and	NathCorp has		
Management		classify assets based on objects and/or people in	implemented multiple		
		images.	POC's on top of Microsoft		
			Syntex for both auto-		
		Discuss Respondent's experience with these features /	classification and meta		
		tools.	data extraction. We have a		
			close relationship with the		
			Syntex team and will have		
			access to the product team		
			if needed		
Digital Asset	40.	Real-time content workflow availability.	NathCorp has		
Management			implemented numerous		
		Discuss Respondent experience with implementing	Windows Workflow		
		content workflows as it specifically relates to Digital	Foundation Workflows,		
		Asset Management.	Nintex Workflows and		
			Power Automate Flows		
/irtual	41.		We have developed Chat		
Assistant /		chatbot capabilities for service management.	Bots in POC and		
Chatbot			Experimental		
			environments		
		implementing virtual assistant / chatbot capabilities in			
		an ECM environment? Discuss compatibility.			

Business Outreach Program (Criteria Six) (Attachment A)

Attachment A: RESPONDENTS PARTICIPATION FORM THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

RFP No. 1335
This form shall include all prime consultants, partners and sub-consultants

LIST ALL PARTIES PROVIDING SERVICES				PERCENTAGE OF THE PROPOSED COST		
Name Address Telephone E-mail address	Relationship: Prime, Joint Venture, Sub-consultant	Type of Work to be Completed	Percentage of Services (RFP Only)	*SBE Yes/No	**DVBE Yes/No	
Resua.io, Anaheim, CA	Sub-consultant	Program Management and Implementation Services	25%	Yes	Yes	
Crayon, Dallas, TX	Sub-consultant	Implementation Services	20%	No	No	
Brainstorm, American Fork, UT	Sub-consultant	End user training program	Less than 2%	No	No	
AvePoint, Jersey City, NJ	Sub-consultant	Data Archiving Application	Less than 2%	No	No	
MacroView, Sydney, Australia	Sub-consultant	Email Saving Application	Less than 2%	No	No	
ProvenTeq, Austin, TX	Sub-consultant	Data Migration Application	Less than 5%	No	No	
NathCorp, Irvine CA (RBE)	Prime	All other services	50%+	Yes	No	
		Total:				

^{*}SBE: A Small Business Enterprise is independently owned and operated; is not dominant in its field; and meets the criteria set forth by the Small Business Administration in Title 13, Code of Federal Regulations, Part 121.

^{**}DVBE: A Disabled Veteran Business Enterprise is independently owned and operated; is not dominant in its field; and meets the criteria set forth by the Veterans Benefit Act of 2003 (15 U.S.C. 657f) AND BY the California Department of General Services (DGS), Procurement Division (PD), Office of Small Business and DVBE Certification (OSDC

Respondent's Contact Information Form (Attachment E)

Attachment E: RESPONDENT'S CONTACT INFORMATION FORM

Respondent Information	
Name of Firm	NathCorp
(As it appears on W-9 Tax form)	
Type of Firm: Check only one	Υ Individual/Sole proprietor or single-member LLC
appropriate box for federal tax	Υ C Corporation
classification of the firm/person	Y X S Corporation
whose name is entered above.	Υ Partnership
	Y Limited Liability Company, Tax Classification: (Enter Tax Classification: C=C Corporation, S=S Corporation, P=Partnership)
Other Name(s) of Firm	NA
(with acronym)	
D&B Duns #	108979770
PlanetBids Vendor ID #	1101144
Business Address	1 Park Plaza, Suite 930, Irvine, CA 92614
City, State, Zip Code	
(For Contract Correspondence)	
List local business office address	1 Park Plaza, Suite 930, Irvine, CA 92614
in Metropolitan's service area.	
Main Telephone	949/522-6902
Contact Name (Mr./Ms.)	Mr. Simon Palmer
Contact Telephone /Facsimile	Telephone: 714/ 615-6051 Facsimile:
Contact E-mail Address	Simon.palmer@nathcorp.com
Sub-consultant(s) Information	
Firm Name	Resua.io
Address	917 East Mason Lane #21
City, State & Zip	Anaheim, CA 92805
Firm Name	Crayon
Address	12221 Merit Dr., Suite 800
City, State & Zip	Dallas, TX 75251
Firm Name	Brainstorm
Address	10 South Center St
City, State & Zip	American Fork, UT 84003
Firm Name	AvePoint
Address	525 Washington Blvd., Suite 1400
City, State & Zip	Jersey City, NJ 07310
Firm Name	MacroView
Address	Level 12, 171 Clarence Street Wynyard, Sydney
City, State & Zip	Sydney, NSW 2000

Firm Name	ProvenTeq
Address	6500 River Place Blvd., Building 7, Suite 250
City, State & Zip	Austin, TX 78730

Respondent's Compliance Form (Attachment F)

Attachment F: RESPONDENT'S COMPLIANCE FORM

RESPONDENT SHALL RESPOND HEREIN TO EACH OF THE SECTIONS BELOW AS REQUESTED.	
YOU MAY ATTACH ADDITIONAL SHEETS IF NEEDED.	
Validity of Proposal Possesses to this RED shall be valid for a paried of at least twolve (12) months. Submissions not valid for at least twolve (12))\ man+h
Responses to this RFP shall be valid for a period of at least twelve (12) months. Submissions not valid for at least twelve (12 will be considered non-responsive. The Respondent shall state herein the length of time for which the submitted Proposal state herein the length of time for which the submitted Proposal state herein the length of time for which the submitted Proposal state herein the length of time for which the submitted Proposal state herein the length of time for which the submitted Proposal state herein the length of time for which the submitted Proposal state herein the length of time for which the submitted Proposal state herein the length of time for which the submitted Proposal state herein the length of time for which the submitted Proposal state herein the length of time for which the submitted Proposal state herein the length of time for which the submitted Proposal state herein the length of time for which the submitted Proposal state herein the length of time for which the submitted Proposal state herein the length of time for which the submitted Proposal state herein the length of time for which the submitted Proposal state herein the length of time for which the submitted Proposal state herein the length of the length	-
remain valid.	siiaii
Include your response here:	
Accepted: Proposal shall remain valid for 12 months.	
Statement of Compliance	
Respondent shall include in this section either a statement of compliance with all parts of this solicitation (terms and condit	ions.
scope of services, sample agreement, etc.) or a list of exceptions. The list of exceptions must include: suggested rewording	
changes; reasons for submitting the proposed exception; and any impact the proposed exception may have on the services	
provided.	
Include your response here:	
Accepted: We are comfortable with Metropolitan Terms and Conditions and have set out various	
assumptions and out scope items in our Technical Approach	
Certificate of Insurance	
Respondent shall state herein the willingness and ability to provide the required insurance coverage and ACORD insurance for the control of t	form
Insurance requirements are listed in Section 1 herein and in the Sample Agreement. Metropolitan shall request the actual A	
insurance form when recommendation for award is made.	
Include your response here:	
Accepted: we will provide current ACORD COI at time of bid award.	
Financial Information	
Respondent must indicate herein its willingness to provide this information. If requested, Respondent shall submit a complete	e financia
statement for the two most recent years, prepared in accordance with generally accepted accounting principles. The financial	
statement must include a balance sheet and income statement and if requested shall be submitted as audited financial statem	
Respondent must be prepared to substantiate all information shown. At its discretion, Metropolitan may accept other financi	al
information that allows for an analysis of the Respondent's financial condition. For agreements valued at \$100,000 or more,	
Metropolitan may require a Dunn and Bradstreet report on respondent(s) recommended for agreement award	
Metropolitan may require a Dunn and Bradstreet report on respondent(s) recommended for agreement award.	
Include your response here:	
Include your response here: Accepted: NathCorp will provide the required financial information and D&B report when	
Include your response here:	
Include your response here: Accepted: NathCorp will provide the required financial information and D&B report when	

<u>Conflict of Interest Form</u> (Attachment G)

Attachment G: RESPONDENT'S POTENTIAL CONFLICTS OF INTEREST FORM

Prime Consultant/Contractor: NathCorp	
Sub-Consultant/Contractor:	_
All sub-consultants/contractors must complete a disclosure form as well as the Prime. If this form is completed by a sub-consultant/contractor, please check this box.	

BACKGROUND AND PURPOSE

State law and Metropolitan's internal ethics rules prohibit Metropolitan directors, officers, and employees ("Metropolitan officials") from making, participating in making, or attempting to influence any Metropolitan decision in which they have a triggering personal financial interest. A Metropolitan official may have a personal financial interest in a decision if it would foreseeably and materially affect the expenses, income, assets or liabilities of the official or an <u>immediate relative</u> as defined below. In some cases, a financial conflict of interest can render a contract void and require restitution of all payments, even for work already performed. Conflicts of interest also can expose individuals to administrative or criminal penalties. In many cases, the conflict can be avoided if the Metropolitan official formally recuses himself or herself from the decision-making process.

Receiving or soliciting political campaign contributions also can require a Metropolitan director to publicly disclose the conflict and take no part in the decision-making process.

The following questions are designed to assist Metropolitan and its officials, as well as the consultant, vendor, contractor, or any sub-consultants or contractors, to recognize and avoid financial conflicts of interest. The details (such as dollar amounts) are based upon criteria within Metropolitan's internal ethics rules or state law. Metropolitan's Ethics Office will review and advise whether any actual or potential disqualifying conflicts exist, and review options for avoiding a conflict. Metropolitan may seek additional information from you to evaluate potential conflicts prior to any final decision.

All respondents (consultants, vendors, contractors or any sub-consultants or contractors) must respond to each of the following questions to the best of their knowledge. For any "yes" response, please provide a thorough explanation. (You may attach additional sheets.) Failure to fully disclose information or potential conflicts may result in disqualification or rejection of the subject proposal, agreement, or contract.

If you have any questions or concerns about the requirements or how to respond to these questions, please contact Metropolitan's Contract Analyst.

QUESTIONS

IF YES, PROVIDE DETAILS BELOW:				
Have you or your firm employed or cont	racted for the comi	sos of ar ath	omuico mada nav	monto to any individ
served as a Metropolitan director, office			• •	intents to any maivic
[Yes]□ [No]⊠	,			
IF YES, PROVIDE DETAILS BELOW:				
If "Yes", did this individual advise you or	or participate in fe	rmulating w	our submittal?	
•	TOT participate in it	ormulating yo	our submittair	
[Yes]□ [No]⊠				
IF YES, PROVIDE DETAILS BELOW:				
Do any current Metropolitan directors, o				
Do any current Metropolitan directors, of following financial relationships with you	u, your company, o	r with any pr	oposed sub-cons	ultant or contractor
Do any current Metropolitan directors, of following financial relationships with your for purposes of this question, "Immedia	u, your company, o te relative" means	r with any pr any spouse,	oposed sub-cons domestic partner	ultant or contractor
Do any current Metropolitan directors, of following financial relationships with your for purposes of this question, "Immedia	u, your company, o te relative" means	r with any pr any spouse,	oposed sub-cons domestic partner	ultant or contractor
Do any current Metropolitan directors, of following financial relationships with your for purposes of this question, "Immedia adults), parent or step-parent, parent-in (Check all that apply)	u, your company, o ite relative" means i-law, sibling, grand	r with any pr any spouse, parent, or gr	oposed sub-cons domestic partner	ultant or contractor
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Do any current Metropolitan directors, of following financial relationships with your for purposes of this question, "Immedia adults), parent or step-parent, parent-in (Check all that apply) Owner Member	u, your company, o ite relative" means i-law, sibling, grand [Yes]	r with any pr any spouse, parent, or gr [No] \(\times\) [No] \(\times\)	oposed sub-cons domestic partner	ultant or contractor
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Do any current Metropolitan directors, of following financial relationships with your for purposes of this question, "Immedia adults), parent or step-parent, parent-in (Check all that apply) Owner Member Partner Officer Employee	u, your company, o Ite relative" means I-law, sibling, grand [Yes] [Yes] [Yes] [Yes] [Yes]	r with any pr any spouse, parent, or gr [No] \(\times\) [No] \(\times\) [No] \(\times\) [No] \(\times\)	oposed sub-cons domestic partner	ultant or contractor
Do any current Metropolitan directors, of following financial relationships with you for purposes of this question, "Immedia adults), parent or step-parent, parent-in (Check all that apply) Owner Member Partner Officer Employee Consultant	your company, o te relative" means -law, sibling, grand [Yes] [Yes] [Yes] [Yes] [Yes] [Yes] [Yes]	r with any pr any spouse, parent, or gr [No] [No] [No] [No]	oposed sub-cons domestic partner	ultant or contractor
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If "Yes", did this individual advise you on or participate in formulating your submittal?

Within the past 12 months, have you or your firm provided anything listed below to any Metropolitan official director, consultant or his/her immediate relative? Gift or gifts (such as food, beverage, entertainment, or travel) totaling \$50 or [Yes]				
Gift or gifts (such as food, beverage, entertainment, or travel) totaling \$50 or [Yes] [No] more in value Income (i.e., as an employee, consultant, supplier, service Respondent, etc.) totaling \$500 or more in value Loan or loans of \$500 or more Loan repayments of \$500 or more Yes] [No] If Yes, PROVIDE DETAILS BELOW: If "Yes" to any of the above, did this individual advise you on or participate in formulating your submittal? Yes] [No] If Yes, PROVIDE DETAILS BELOW: Within the past 12 months, have you or your firm offered or discussed potential employment or any other topportunities with any Metropolitan director, official, employee or their immediate relative? Yes] [No] If Yes, PROVIDE DETAILS BELOW:				
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Loan repayments of \$500 or more Yes No No			[Yes]□	[No]⊠
If "Yes" to any of the above, did this individual advise you on or participate in formulating your submittal? [Yes]□ [No]⊠ IF YES, PROVIDE DETAILS BELOW: Within the past 12 months, have you or your firm offered or discussed potential employment or any other bopportunities with any Metropolitan director, official, employee or their immediate relative? [Yes]□ [No]⊠ IF YES, PROVIDE DETAILS BELOW:			[Yes]□	[No]⊠
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F YES, PROVIDE DETAILS BELOW: If "Yes", did the individual(s) advise you on or participate in formulating your submittal? [Yes]□ [No]⊠	[Yes]□ F YES, PROVIDI	[No]⊠ E DETAILS BELOW: t 12 months, have you or your firm offered or discussed potential en	nployment or	
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6. Within the past 12 months, have you or any of your officers, employees, or agents:

Made a political contribution of \$250 or more to the campaign or committee of any	[Yes]□	[No]⊠
member of Metropolitan's Board of Directors who is an elected official or candidate		
for elective office?		
		<u> </u>
Received any solicitation for a political campaign contribution of \$250 or more from	[Yes]□	[No]⊠
any member of Metropolitan's Board of Directors or its General Manager?		
YES, PROVIDE DETAILS BELOW	- 1	
Daryl W. Sansevero		
Name (type or print)		
NathCorp		
Company		
Director		
Fitle Fitter Fit		
2/9/2023		
Date		
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