

SCHEDULE K: SERVICE DEFINITION FOR ENHANCED OPERATIONAL MANAGEMENT LEVEL – AZURE MANAGED

The Azure Managed enhanced operational support level provides management and support to the Customer on CSP based Microsoft Azure environments on a 24x7x365 basis. This enhanced operational support level provides support for all Azure resources within the Customer's Azure tenancy ("Supported Items").

Exponential-e will provide management of the Customer Virtual Machines within Azure as set out below.

The service is designed to operate as an "IT to IT" model where the Customer IT Management Team will be approved to interact with Exponential-e Managed Services team through the Service Desk. End Users will not be permitted to contact the Exponential-e Managed Services team.

Definitions

| AD | Active Directory |
|-------|-------------------------------------|
| AD-FS | Active Directory Federated Services |
| ВС | Business Continuity |
| ВСР | Business Continuity Plan |
| СМОВ | Customer Management Database |
| CSP | Cloud Services Provider |
| DR | Disaster Recovery |
| ITSM | IT Service Management |
| MFA | Multi Factor Authentication |
| OS | Operating System |
| RI | Reserved Instance |
| RMM | Remote Monitoring and Management |
| SSO | Single Sign On |

"Good Industry Practise" – the exercise of the degree of skill, diligence and prudence which would reasonably and ordinarily be expected from a skilled and experienced technology professional. engaged in the same type of activity under the same or similar circumstances but which shall not be construed as requiring every new release of software to be deployed where Exponential-e has good reasons for not so doing.

Service Description

Exponential-e will undertake the following management tasks within the Azure Managed enhanced operational support level:

| Aspect | Exponential-e Responsibilities | | | | | | |
|------------------------|---|--|--|--|--|--|--|
| Azure Backup (if used) | Configuring daily backups of all Supported Items to include the ability to restore individual files and whole Operating System environments and the data they contain. Limitations of Azure backup are listed in the "Backup Support Matrix" provided by Microsoft which is updated regularly. https://learn.microsoft.com/en-us/azure/backup/backup-support-matrix The following checks are included as part of the Exponential-e Service: - • Monitoring backups daily. | | | | | | |



| Aspect | Exponential-e Responsibilities |
|---|--|
| Aspect Azure Site Recovery (if used) | Exponential-e Responsibilities Test application-specific backups and restores during the On-Boarding activity to prove the recoverability of backed-up data. Use reasonable endeavours to detect and remediate backup faults for OS and application issues of Supported Items. Carry out full system restores from backup as requested by the Customer. Each Supported Item includes one full system restore event per annum without additional charge. Additional full system restores can be completed at an additional charge. Carry out OS and application file level restores from backup as requested by the Customer. Each Supported Item includes sixty (60) file system restore events per annum without additional charge. Carry out OS and application file level restores from backup as requested by the Customer. Each Supported Item includes sixty (60) file system restore events per annum without additional charge. Produce and maintain a document in the CMDB detailing the backup settings used to back up Supported Items and the processes to do this. Provide the Customer with standard Disaster Recovery and Business Continuity process document(s) for the Supported Items. Request sign-off from the Customer stakeholders for the standard format Disaster Recovery and Business Continuity process document(s), or the Supported Items once a year (to support DR failover exercises delivered remotely on a sample and isolated environment as detailed in the Disaster Recovery and Business Continuity process document(s), unless agreed otherwise in writing by the Parties). Participate in chargeable Disaster Recovery simulations with the Customer on Supported Items if the Customer requests. This is subject to a minimum of ten (10) Working Days' notice provided to the Service Desk by the Customer. Coordinate with the Customer's representatives to execute DR processes per the Disaster Recovery & Business Continuity process document(s). Exponential-e is respons |
| Azure Service Monitoring | document(s) for Disaster Recovery and Business Continuity. Exponential-e will monitor Azure services with existing Exponential-e |
| | Exponential-e will monitor Azure services with existing Exponential-e ITSM integrations. Document all monitoring settings for all Supported Items during the On-Boarding activity and make this information visible to the Customer in the CMDB. Update the documentation when monitoring changes are made or via customer request. |
| Virtual Machine monitoring | All Supported Items will be configured with an Remote Monitoring and Management ("RMM") method that will be used to monitor the health and availability of the Supported Items proactively. |



| Aspect | Exponential-e Responsibilities |
|------------------------|--|
| | Configuring and maintaining standard, automated OS and application monitors for Supported Items to notify Exponential-e of OS and application issues and outages. Document all monitoring settings for all Supported Items during the On-Boarding activity and make this information visible to the Customer in the CMDB. Update the documentation when monitoring changes are made. It is customer responsibility for ensuring the identified list of Resources is complete and accurate. Proactive monitoring of Supported Item CPU, RAM, disk space, and network utilisation if the Supported Item provides access to and stores this information for thirty (30) days. Proactive monitoring of all Supported Items at regular intervals (as agreed during On-Boarding) to collect standard OS and application metrics. Carrying out Exponential-e standard automated health check and performance monitoring for Supported Item Operating Systems and applications. The Customer may choose up to five (5) additional OS monitors from Exponential-e's list of available additional OS and application monitors that Exponential-e will monitor for Supported Items. Logging issues uncovered by OS and application monitoring within the management platform. Process issues uncovered by OS and application monitoring to remediation (where possible). Manage and maintain the monitoring agent software. |
| Azure Management Tasks | Global Azure Management Manage the Azure tenancy and its configuration settings on behalf of the Customer. The cost anomaly detection will be agreed with the Customer and Exponential-e will notify the Customer if anomalies are detected. It is the Customer's responsibility to review all costs and ensure they are as expected, and any Reserved Instances ("RI") or Savings Plans are correctly applied. Quarterly cost optimisation report Quarterly performance review of service recommendations Annual Review of the Azure Environment Decommissioning of Azure services if requested by the Customer, based on Exponential-e's ITIL-compliant decommissioning process. Configuration and management of the Azure tenancy environment, including any Azure options, features, or supported applications installed onto Azure. Access and Rights Manage Azure Lighthouse integration with the Customer's Azure tenancy |
| | Manage Microsoft Single Sign On ("SSO") authentication using the Azure AD tenant. |



| Aspect | Exponential-e Responsibilities |
|---|--|
| Cost Optimisation – Quarterly Review and Recommendations for performance optimisation (i.e. resizing) | Manage Azure AD Connect to provide the following features to the Customer correctly: password hash synchronisation, pass-through authentication, federation using AD FS, synchronisation of AD objects with Azure, and robust health monitoring of on-premise identity infrastructure. Manage the management of users created in the Azure tenancy for Exponential administrative, Customer administrative, data access, and Azure end user services purposes. Manage the management groups created in the Azure tenancy for Exponential-e and the Customer. Configure and manage Azure AD Multi Factor Authentication ("MFA") policies for Azure administrators and users for access to supported hardware, operating systems, and applications. Configure and manage Azure AD conditional access policies to Customer information on Microsoft 365 and Office 365. Configure and manage Azure AD Self-Service Password Reset. Commercial Configure and manage Azure budgets and spending threshold notifications as requested by the Customer. Health Monitor Azure Service Health and notify the Customer of detected health problems. Monitoring Configure Azure Monitor for required resources within the tenancy Raising incidents in the event of Azure infrastructure health and availability problems. Aspect Exponential-e's Responsibilities Installation and configuration of the required software needed to support Exponential-e's service delivery of the managed services (including monitoring software and the setup of VM tools where applicable). Undertake a quarterly review of cost optimisation and recommendations within Azure with the Customer At Customer request, discuss impact of change and propose recommendations to Customer for resizing Azure Virtual machines. Review recommendations relating to Reserved Instances Review previous t |
| Patch Management – if applicable Exponential-e will manage patching on Azure VMs for the Customer | • Schedule the delivery of patches in line with the Exponential-e standard patching process (as detailed in this Flex Manage Service Document) |



| Aspect | Exponential-e Responsibilities |
|--------|--|
| | Exponential-e carry out patch tests in a lab environment where possible to ascertain whether patches are safe to deploy and look to notify customers where known issues apply. Customers are required to schedule 2-4 weeks behind vendors' release cycles so that faults identified are corrected before installation in this scenario. All patching is carried out in line with the agreed Change and Release processes during scheduled windows. Where possible, automation is used. |

Service Hours

Exponential-e will provide the Azure Managed enhanced operational support level on a 24 x 7 x 365 basis.

Azure Service Exclusions

Exponential-e does not maintain technical skills for all Azure services in-house. However, customers leveraging non-supported services can still log incidents with Exponential-e, and Exponential-e will escalate with Microsoft on the Customer's behalf through Exponential-e's Premier Support Agreement with Microsoft to provide the Customer with Microsoft based support for Azure related issues and support requirements. The services Exponential-e does not support directly includes, but is not limited to:

| Azure Orbital | Load Testing |
|---------------------------|--------------------------|
| Internet Analyzer | Managed Grafana |
| Vnet Manager | Microsoft Dev Box |
| Avere vFXT | SignalR Service |
| Azure Elastic SAN | Visual Studio App Center |
| Azure NetApp Files | Energy Data Services |
| Confidential Ledger | Health Data Services |
| Data Share | Notification Hubs |
| HPC Cache | Web PubSub |
| Managed Lustre | Azure Maps |
| StorSimple | Azure Sphere |
| Azure Batch | Defender for IoT |
| Azure Quantum | Digital Twins |
| Azure Red Hat OpenShift | IoT Central |
| Cloud Services | IoT Edge |
| Azure AD EI (MS Identity) | loT Hub |
| Kubernetes Fleet Manager | Object Anchors |
| Managed Apps | Remote Rendering |
| Apache Cassandra MI | Spatial Anchors |
| Database for MariaDB | Time Series Insights |
| Database for PostgreSQL | Azure Comms. Gateway |
| Redis Cache | Media Services |
| Data Catalog | |
| Data Explorer | |
| Operator Insights | |



| Applied AI Services | |
|---------------------|--|
| Bot Service | |
| Microsoft Genomics | |
| Open Datasets | |
| Project Bonsai | |
| Azure Chaos Studio | |
| Azure Spring Apps | |
| Lab Services | |

Service Dependencies

- Exponential-e must be the Azure Cloud Services Provider (CSP) for the services under Azure Managed enhanced operational support levels.
- The Service is underpinned by Microsoft Premier Support.
- Exponential-e will use Azure Lighthouse for access to the Customer Azure environment.

Customer Dependencies

The following Customer dependencies exist for Exponential-e to deliver the Azure Managed enhanced operational support level. Failure of the Customer to meet these Customer Dependencies may affect the service Exponential-e can deliver to the Customer and Exponential-e's obligations under the Flex Manage service levels.

- The Customer shall provide documented active Customer IT policies for all Supported Items when starting the On-Boarding process.
- The Customer shall provide Exponential-e with advice in advance of any peculiar, special, or particular modifications made to the Azure Managed enhanced operational support levels.
- The Customer shall be responsible for documenting and maintaining any differing configuration and requirements pertaining to the Azure Managed enhanced operational support levels that are peculiar, special, or have had particular modifications applied.
- The Customer shall ensure that Customer endpoints and management environments are secure, patched, and maintained in accordance with Good Industry Practice.
- The Customer shall ensure that any Customer-managed Azure Managed enhanced operational support levels are secured, patched, and maintained in accordance with Good Industry Practice.
- The Customer shall work with Exponential-e to replace all End-of-Life Supported Items before the End-of-Life date arrives.
- The Customer shall provide Exponential-e with appropriate rights on Azure Managed enhanced operational support levels to provide appropriate support.
- The Customer must use Exponential-e as Azure CSP
- The Customer will permit the use of Azure Monitor to be used for the purposes of monitoring an alerting against configured Azure services
- The Customer will permit the use of Azure Lighthouse for Exponential-e Management Services
- The Customer shall review the Cost Optimisation Report on a quarterly basis, and notify Exponentiale of any wish to make changes to existing services.
- The Customer will permit the deployment of additional services required to deliver enhanced service capabilities, and associated charges. For example, Azure VMs to run additional collectors, bastion hosts, jump servers etc.
- The customer must agree to providing Exponential-e with all relevant Admin privileges for the tenancy through GDAP, this must include but not be restricted to Azure role-based access control (RBAC) role assignments with *Microsoft.Support/supportTickets/write* permissions, all additional roles can be found here: GDAP role guidance : <u>https://learn.microsoft.com/en-us/partner-center/gdap-least-privileged-roles-by-task</u>



Service Onboarding

The Supported Items will undergo the following technical gates during On-Boarding:

Acceptance into Service 1 (AIS 1)

AIS 1 is achieved once the Azure Services have been enabled by Exponential-e or a combination of Exponentiale and the Customer. During this phase, the Azure Managed enhanced operational support level is not delivered to the Customer by Exponential-e.

Acceptance into Service 2 (AIS 2)

AIS 2 is achieved once the Azure Services have been enabled and configured by Exponential-e or a combination of Exponential-e and the Customer and any migration activities have been completed. During this phase, the Azure Managed enhanced operational support level is not delivered to the Customer by Exponential-e.

Early Life Support (ELS)

ELS is achieved once the Onboarding activity has been completed and Exponential-e commences delivering the Azure Managed enhanced operational support level. The period for ELS is agreed on an individual basis with the Customer during the On-Boarding activity and is at least one (1) month following the On-Boarding completion date. The Azure Managed enhanced operational support level is provided during the ELS phase, and the Flex Manage Service Level Agreement (SLA) will apply, but no Service Credits shall be payable.

Business as Usual (BAU)

BAU is achieved once the ELS period has elapsed and once all projects, programmes and expected activities that might introduce change have been concluded. During the BAU phase, Exponential-e will deliver the Azure Managed enhanced operational support level, the Flex Manage SLA will apply, and Service Credits will be payable thereunder.

The Service Commencement Date for the Supported Items is the date that the Supported Item has been On Boarded by the Exponential-e Service Desk and Early Life Support has commenced.

Service Education

Exponential-e will provide information to the Customer about the service's details, and how to effectively interact with the Azure Managed enhanced operational support levels. Exponential-e will provide the following service information during onboarding.

| Information/Process | Timeline | Method |
|---|-------------|-------------------------------|
| Raising incidents for faults/issues | On-Boarding | Face-to-face CMDB Document |
| Raising changes for system changes | On-Boarding | Face-to-face CMDB Document |
| Reporting | On-Boarding | Face-to-face CMDB Document |
| Requesting the creation of new Supported Items | On-Boarding | Face-to-face CMDB Document |
| Requesting the addition of Supported Item resources | On-Boarding | Face-to-face CMDB Document |



| Information/Process | Timeline | Method |
|--|-----------------------|---------------|
| Solution design documentation for Supported Items | First 3 months of BAU | CMDB Document |
| Solution configuration documentation for Supported Items | First 3 months of BAU | CMDB Document |

Accountabilities and Responsibilities

RACI

A responsibility assignment (RACI) matrix showing whether Exponential-e, the Customer or any relevant third parties are Responsible, Accountable, Consulted or Informed in respect of a particular aspect will be drawn up to ensure a joint understanding. The RACI is bespoke to the Customer, is formalised during the On Boarding phase, and is documented in the CMDB.

The following table details who is responsible for high level ITIL-level RACI activities for managed resources within the Azure Managed Enhanced Operational Management Level. Some activities are shared between Exponentiale and the Customer, where the Customer will be responsible for activities such as raising or approving change requests. Specific details are documented within the CMDB.

| ITIL Process | Exponential-e | Customer | |
|--------------------------|---------------|----------|--|
| Asset Management | RA | CI | |
| Change Management | ACI | R | |
| Configuration Management | RA | CI | |
| Event Management | RA | CI | |
| Incident Management | RA | CI | |
| Patch Management | RA | CI | |
| Release Management | RA | CI | |
| Request Management | ACI | R | |

The Customer is responsible for all RACI activities for areas that Exponential-e is not responsible for. During the On Boarding activity the Customer shall identify key internal and 3rd line primary and back-up contacts to the Service Desk and promptly inform the Service Desk of any changes during the term of the Contract.

Service Requests

Service Requests are requested changes to a Supported Item or a request for an operational task made by the Customer.

Types of Service Requests may include those set out in the table on the following pages.



Where a Quantity and Frequency are specified in the table on the following pages, this is a maximum allowance included free of additional Charges over the corresponding timeframe. Service Requests in excess of this allowance will be accepted by Exponential-e but shall be invoiceable in arrears in accordance with Exponential-e's thencurrent Professional Services rates. For the avoidance of doubt, allowances apply on a "use it or lose it" basis and unused portions of any allowance cannot be rolled-over or the subject of any credit. Where the Quantity is designated as N/A, there is no maximum allowance and no additional charges shall apply.

All Service Requests that are designated in the table on the following pages as PR and any other Service Requests of a type not listed in the table are not included within the Charges for the Flex Manage Services and will be invoiceable in arrears in accordance with Exponential-e's then-current Professional Services rates plus any additional charges that apply as agreed in writing at the time of Service Request acceptance.

All Service Requests will be reviewed, verified and subject to approval by Exponential-e and Exponential-e will confirm if additional charges apply.

Service Requests will be subject to the applicable Target Time to Complete (if any) set out in the table on the following pages. Exponential-e shall use reasonable endeavours to complete the Service Request within this timeframe. The Customer may request the delivery time for all Service Requests to be scheduled for a future date/time in which event, the Target Time to Complete will commence at the relevant date/time.

Service Requests will be carried out by Exponential-e during the Hours stated in the table on the following pages. Should the Customer request that they be carried out outside of the applicable Hours, additional charges in accordance with Exponential-e's then-current Professional Services rates will apply.

| ID | Request Description | Availability | | Туре* | Hours | Time to | Quantity | Frequency |
|-------------|---------------------------------------|--------------|-------|-------|--------------------------|--|----------|-------------|
| | | Email | Phone | | | Complete | | |
| SROAM0 1 | Shut down OS | Yes | Yes | OSR | 24 x 7 x 365 | 1 hour | 10 | Per month |
| SROAM0 2 | Reboot OS | Yes | Yes | OSR | 24 x 7 x 365 | 1 hour | 10 | Per month |
| SROAM0 3 | Request new physical SI | Yes | Yes | PR | Normal Business Hours | 7 Working Days following hardware delivery | N/A | As required |
| SROAM0 4 | Request new virtual SI | Yes | Yes | PR | Normal Business Hours | 1 Working Day | N/A | As required |
| SROAM0 5 | Change IP address | Yes | Yes | OSR | 24 x 7 x 365 | 1 hour | 1 | Per quarter |
| SROAM0 6 | Change hostname | Yes | Yes | OSR | 24 x 7 x 365 | 1 hour | 1 | Per quarter |
| SROAM0 7 | Complete emergency patching | Yes | Yes | SO | 24 x 7 x 365 | 8 hours | 1 | Per quarter |
| SROAM0 8 | Complete emergency AV scanning | Yes | Yes | SO | 24 x 7 x 365 | 8 hours | 1 | Per quarter |
| SROAM0 9 | Complete additional backups of the SI | Yes | Yes | SO | 24 x 7 x 365 | 8 hours | 5 | Per quarter |



| ID | Request Description | Availability | | Туре* | Hours | Time to | Quantity | Frequency |
|-------------|---|--------------|-------|-------|--------------------------|--|----------|------------------|
| | | Email | Phone | | | Complete | | |
| SROAM1 0 | Restore the full physical server from backup | Yes | Yes | OSR | 24 x 7 x 365 | 1 Working Day | 1 | Per annum |
| SROAM1 1 | Restore the full virtual server from backup | Yes | Yes | OSR | 24 x 7 x365 | 1 Working Day | 1 | Per annum |
| SROAM1 2 | Restore individual files from backup | Yes | Yes | SO | 24 x 7 x365 | 1 hour | 60 | Per annum |
| SROAM1 3 | Test restore files from backup to test backup validity | Yes | Yes | PR | Normal Business Hours | 2 Working Days | N/A | As required |
| SROAM1 4 | Fail over the virtual SI to another location | Yes | Yes | OSR | 24 x 7 x 365 | 1 hour | 1 | Per month |
| SROAM1 5 | Adjust the physical resources allocated to the SI upon Customer request | Yes | Yes | PR | Normal Business Hours | 2 Working Days following hardware delivery | N/A | As required |
| SROAM1 6 | Adjust the virtual resources allocated to the SI upon Customer request | Yes | Yes | SO | 24 x 7 x 365 | 1 Working Day | 1 | Per month |
| SROAM1 7 | Create and format physical disk volumes | Yes | Yes | PR | Normal Business Hours | 2 Working Days following hardware delivery | N/A | As required |
| SROAM1 8 | Create and format virtual disk volumes | Yes | Yes | OSR | 24 x 7 x 365 | 1 Working Day | 1 | Per month |
| SROAM1 9 | Create fault tolerant physical disk systems | Yes | Yes | PR | Normal Business Hours | 2 Working Days following hardware delivery | N/A | As required |
| SROAM2 0 | Create fault tolerant virtual disk systems | Yes | Yes | OSR | 24 x 7 x 365 | 1 Working Day | 1 | Per month |
| SROAM2 1 | Complete one-time performance trend analysis of SI environments (CPU, RAM, disk space, network utilisation) | Yes | Yes | OSR | 24 x 7 x 365 | 2 Working Days | 1 | Semi annually |
| SROAM2 2 | Review DR and BC plan | Yes | Yes | SO | Normal Business Hours | 5 Working Days | 1 | Per annum |
| SROAM2 3 | OS and application patch installation | Yes | Yes | SO | 24 x 7 x 365 | 8 hours | 1 | Per month |
| SROAM2 4 | Hardware firmware installation | Yes | Yes | SO | 24 x 7 x 365 | 2 hours | 1 | Semi annually |
| SROAM2 5 | Reset SI management account password | Yes | Yes | SO | 24 x 7 x 365 | 1 hour | 1 | Per quarter |



| ID | Request Description | Availability | | Туре* | Hours | Time to | Quantity | Frequency |
|-------------|--------------------------------------|--------------|-------|-------|--------------|-------------------|----------|-----------|
| | | Email | Phone | _ | | Complete | | |
| SROAM2 6 | Review OS and application audit logs | Yes | Yes | OSR | 24 x 7 x 365 | 2 Working Days | 1 | Per annum |
| SROAM2 7 | Restart applications | Yes | Yes | OSR | 24 x 7 x 365 | 1 hour | 10 | Per month |

* PR = Project Requirement, OSR = Operational Support Request