

ans

Service Definition

IoT SmartSpaces | Managed

1. Operational Services

1.1 Service Description

Normal Business Hours = 9:00 -17:30, Monday to Friday
(excluding bank holidays)
Working Day – 8.5 Normal Business Hours
24x7 = 24 hours a day, 7 days a week

Yanzi Business Hours = 09:00-17:30 CET Monday to Friday
(excluding Swedish Bank Holidays)

1.1.1 ANS Service

Service	Service Description	Service Hours
Incident Management		
Service Desk - Non-Business Critical Faults	The Supplier provides access with relevant phone and email contact details to the Supplier Service Desk for non-critical system/service down and/or affected scenarios (P2/P3/P4).	Normal Business Hours
Service Desk - Business Critical faults	The Supplier provides 24/7 access with relevant phone contact details to the Supplier Service Desk for critical system down scenarios (P1) only.	24 x 7
Priority Escalation to Cloud Services Vendor	Priority escalation to Cloud Services vendor through partner channels	Normal Business Hours
Priority Escalation to Device & Sensor Vendor for faults	Priority escalation to Device & Sensor vendor through partner channels.	Yanzi Business Hours
Priority Escalation to SIM Card Provider for faults	Priority escalation to SIM Card Provider through partner channels.	Normal Business Hours
High Priority Escalation to Cloud Services Vendor	High Priority escalation to vendor through partner channels for Priority 1 business critical faults.	24 x 7
Device Platform and Sensors		
Device and Sensor Management Platform	<p>The supplier will provide access to a Device and Sensor Management Platform.</p> <ul style="list-style-type: none"> • Sensor & Gateway placement planning • Sensor & Gateway Installation process • Sensor & Gateway Asset Inventory • Sensor & Gateway Firmware Management • Platform Maintenance • Data Visualisation 	24 x 7
Yanzi Presence Mini (Optional)	The Yanzi Presence Mini is a battery-operated sensor including the following datapoints:	24 x 7

	<ul style="list-style-type: none"> • Motion Detection • Temperature Monitoring 	
Yanzi Comfort (Optional)	<p>The Yanzi Comfort is a mains-powered sensor including the following datapoints:</p> <ul style="list-style-type: none"> • Temperature • Humidity • Volatile Organic Compound (VOC) • Carbon Dioxide (CO2) • Ambient Noise • Barometric pressure 	24 x 7
Yanzi Motion+ (Optional)	<p>The Yanzi Motion+ is a battery-operated sensor including the following datapoints:</p> <ul style="list-style-type: none"> • Motion Detection • Temperature • Humidity • Ambient Light • Sound Pressure 	24 x 7
Sensor & Gateway Monitoring	<ul style="list-style-type: none"> • Device Availability • Sensor Availability • Gateway Availability 	24 x 7
Sensor & Gateway Hardware Replacement	Defective Sensor and Gateway Hardware can be sent to the vendor for repair and replacement under vendor RMA process and terms	Normal Business Hours
Connectivity (Optional)		
4G SIM Card Replacement	The supplier will provide replacement of defective 4G SIM Cards	Normal Business Hours
Data Plan Utilisation Reporting	The supplier will provide monthly consumption & utilisation reports on 4G Data	Normal Business Hours
Cloud Services		
Sensor Reading Notifications	Where configured and appropriate sensors deployed, customer email notifications relating to sensor readings (e.g. Temperature, Light, Occupancy CO2) where customer defined threshold is breached.	24 x 7
Cloud Service Monitoring	<ul style="list-style-type: none"> • Digital Twins Public Endpoint Availability • Event Hub Throughput • SQL Database DTU Consumption • SQL Database Performance • SQL Database Capacity • Storage Account Availability 	24 x 7
Azure Digital Twins	Digital Twins is the service used to ingest, process and normalize inbound messages from sensors. It also acts as the spatial intelligence graph to create a digital representation of physical spaces.	24 x 7
Azure Event Hub	Event Hub acts as a message bus between the Digital Twins Service and Stream Analytics service.	24 x 7

Stream Analytics	Stream Analytics provides real-time event processing and enrichment for events received from Digital Twins.	24 x 7
Function App	Function Apps are used to extract reference data from the Digital Twins API	24 x 7
Logic App	Logic Apps are used to send email notification sensor threshold breaches	24 x 7
Table Storage	Table Storage is used to store sensor telemetry	24 x 7
Blob Storage	Blog Storage is used to store reference data and static application data	24 x 7
SQL Database	A SQL database is used to store point-in-time telemetry data	24 x 7
Data & Visualisation		
Power BI Visualisation Configuration	The supplier will configure or change Power BI Visualisation based on requirements specified by the customer via the change management process.	Normal Business Hours
Change Management & Advisory		
Change Advisory & Guidance	<p>The supplier provides access to Change Advisory for:</p> <ul style="list-style-type: none"> • Sensor planning and installation • Digital Twins Space Configuration & Management • Provision new Digital Twin spaces, devices & sensors • Digital Twin alert threshold configuration 	Normal Business Hours
Monitoring & Event Management		
Alert Configuration and Response	The Supplier will configure Alerts for the Smart Spaces environment and respond to Alerts. Alerts will be handled as Incidents within the Incident Management process	Normal Business Hours
Service Operations		
Enterprise Monitoring Portal Access	Customer read-only access to a portal providing visibility of all Customer Supported Assets covered by the Enterprise Monitoring service.	24 x 7
GLASS Portal Access	Customer access to ANS GLASS portal providing visibility of all Service related tickets, alerts and performance dashboards.	24 x 7
Problem Management	ANS Problem Management processes are adhered to for incident, change and event reduction. Problems are reviewed during the Service Management Review.	Normal Business Hours
Service Reviews	Service Management Review (SMR) Reports will be distributed at regular intervals and discussed via a meeting between the Supplier and the Customer. The SMR Report will cover the previous period. Please refer to your Service Statement for SMR frequency and meeting type.	Normal Business Hours

Root Cause Analysis	Applicable to P1 Incidents only, following a successful resolution of a P1 Incident, the Supplier will perform Root Cause Analysis. In the case of recurring Incidents (regardless of priority) further analysis may be undertaken to identify the underlying cause. Where applicable a Service Disruption Report will be created.	Normal Business Hours
Change Management Process	The Supplier will take full ownership of the Change Management Process for the Customer Supported Assets.	Normal Business Hours
Emergency Changes	Following a Security Incident or Business Critical Incident the Supplier will implement Emergency Changes.	24 x 7

1.2 Incident Management

1.2.1 Incident Priority Table:

Affect	Business Impact		
	Minor	Moderate	Major
System/Service Down	P3	P2	P1
System/Service Affected	P4	P3	P2
User Down/Affected	P5	P4	P3

1.2.2 Incident Response and Escalation Table:

Priority	Response SLA	Specialist Review	Escalation Manager	Escalation Director	Notification Frequency	Target Resolution KPI
P1	30 Minutes	1 Hour	Immediate	Immediate	Hourly Email	4 hours
P2	1 Hour	2 Hours	4 Hours	None	GLASS Portal	1 Day
P3	4 Hours	1 Day	2 Days	None	GLASS Portal	10 Days
P4	1 Day	Never	Never	None	GLASS Portal	30 Days
P5	2 Days	Never	Never	None	GLASS Portal	None

For an Incident, “Response” is the time from when the ticket is first logged within the ANS ITSM Tool to the time that the Supplier responds with a suitably qualified Employed person whether via an email, GLASS Portal update, telephone call or in person. For detailed process flow see the current Managed Services Handbook. Support to provide a resolution shall be provided within Service Hours from the time of Response until the Incident has been resolved.

From the time of Response until resolution, updates shall be provided to the Named Contacts and/or Escalation Contacts by email or GLASS Portal updates at such frequencies as set out in the table above.

1.3 Change Management

All Changes require a Request for Change (RFC) form to be completed on the Suppliers GLASS Portal and submitted detailing the required Change. The Supplier will reject unapproved or incomplete RFC forms.

Changes will follow the Change Management Process as defined in the ANS Managed Services Handbook. It should be noted that Emergency Changes will only be carried out in the event of a P1 scenario (either pro-active or reactive) and/or a major Security Incident where the Supplier deems appropriate.

1.3.1 Change Risk Assessment Matrix

Impact on Service	High	Significant 3 CR3	Major 2 CR2	Critical 1 CR1
	Medium	Minor 4 CR4	Significant 3 CR3	Major 2 CR2
	Low	Candidate for Standardisation 5 CR5	Minor 4 CR4	Significant 3 CR3
		Low	Medium	High
Probability of Negative Impact Until Change is Successfully Completed				

1.3.2 Change implementation targets Table:

Change Type	Implementation Start Date
Normal CR1	1 Working Day from CAB Approval
Normal CR2	2 Working Days from CAB Approval
Normal CR3	3 Working Days from CAB Approval
Normal CR4	4 Working Days from CAB Approval
Normal CR5	5 Working Days from CAB Approval
Normal CR6	Project Changes (Informational and Approval only)
Standard	Change to be completed within 4 Working days from logging on ANS ITSM Tool
Emergency	Change to completed in conjunction with Incident Management Process (P1)

Emergency Changes are dealt with in conjunction with the Incident Management Process; further details of this and all other change types are detailed within the Managed Services Handbook.

Standard and Emergency Changes to the Service within the scope of this Contract will be completed by the Supplier at no additional cost.

2. Service Levels, Key Performance Indicators and Service Credits

Category	Service Level Target	Minimum Service Level	Service Credits
P1 Incidents	100% of Incidents responded to within 30 minutes – 24x7 Service Hours.	100%	1st incident missed response time – 5% Service Credit 2nd incident missed response time – 10% Service Credit
P2 Incidents	100% of Incidents responded to within 1 Normal Business Hour.	Service credits apply from 2 nd failure within a calendar Month	1 st incident missed response time – 0% Service Credit 2 nd incident missed response time – 5% Service Credit 3 rd incident missed response time – 10% Service Credit
P3 Incidents	100% of Incidents responded to within 4 Normal Business Hours.	80%	<80% - 5% Service Credit
P4 Incidents	100% of Incidents responded to within 1 Working Day.	None	No Service Credit
P5 Incidents	100% of Incidents responded to within 2 Working Days.	None	No Service Credit
Root Cause	100% of P1 Incidents to receive a Root Cause Analysis within 10 Working Days of Resolution	None	No Service Credit

CR1 Change	100% of Changes start implementation within 1 Working Day from CAB Approval	100%	1 Change Missed Implementation time - 5% Service Credit 2 Changes missed Implementation times - 10% Service Credit
CR2 Change	90% of Changes start implementation within 2 Working Days from CAB Approval	85%	5% Service Credit
CR3 Change	90% of Changes start implementation within 3 Working Days from CAB Approval	None	No Service Credit
CR4 Change	90% of Changes start implementation within 4 Working Days from CAB Approval	None	No Service Credit
CR5 Change	90% of Changes start implementation within 5 Working Days from CAB Approval	None	No Service Credit
Standard Change	100% of changes implemented within 4 Working Days	90%	5% Service Credit

Service Credits are calculated as a percentage of the monthly Base Charge and in any event, shall not exceed 10% of the monthly Base Charge in the month that the Service Credit arose. Where a Service Credit is due it shall not accumulate with any other Service Credit and only one Service Credit can be offered within the monthly period.

3. Exclusions

The following are listed as exclusions, but this list shall not be considered complete or exhaustive and the Terms and Conditions should be consulted.

- a. Issues resulting from misconfiguration by the Customer outside of the Customer Supported Assets resulting in impact to the Customer Supported Assets
- b. Issues resulting from failures in maintenance/administration by the Customer outside of the Customer Supported Assets resulting in impact to the Customer Supported Assets
- c. Issues resulting from misconfiguration or development by the Customer and/or the Customers chosen 3rd Party Application provider
- d. Issues resulting from Unauthorised Access by the Customer of Customer Supported Assets
- e. End User or 1st Line support
- f. Technical Advice to any persons not listed as a Named Contact
- g. Failure to meet SLA due to Public Cloud provider outages or local environment factors such as Power and Cooling
- h. Normal Changes requiring more than 2 hours of implementation time are excluded from the service and will be subject to Additional Service Charges
- i. Project Changes (Normal CR6) are excluded from the service and will be subject to Additional Service Charges. Project Changes are recorded within the Supplier ITSM Tool for Informational and approval purposes only.
- j. Emergency Changes that are not a direct output of a Priority 1 incident may be subject to Additional Service Charges
- k. Major Version Releases will be subject to Additional Service Charges as only dot releases and patches are including as part of the service
- l. Failure to meet Incident or Change SLA/KPI due to Yanzi Hardware failure. Hardware replacement and repair is covered by the standard Yanzi RMA process.
- m. Failure to meet Incident or Change SLA/KPI due to 4G SIM Card Failure. SIM Card Replacement is covered by the standard Wireless Logic warranty.

4. Customer Responsibilities

Including but not limited to:

- a. The Customer shall have an established end user support function that may be validated by the Supplier
- b. Where required, the Customer shall make available appropriately skilled Employed persons while an Incident is being managed
- c. The Customer is required to undertake an initial Impact Assessment before logging the Incident with the Supplier. Such Impact Assessment is to include:
 - a. Affected Services
 - b. Business Impact
 - c. Number & Type of users affected
 - d. Recent changes on Supported Assets (regardless of perceived impact)
 - e. The Customer shall check hardware onsite and ensure the hardware has power and cables are connected as expected (where required)
 - f. The Customer shall check LED status of equipment onsite (where required)
- d. The Customer shall provide full administrative access to the Supplier to all the services outlined in the Impact Assessment and any subsequently identified services or provide persons with adequate access to allow investigations to proceed
- e. The Customer is required to ensure that all Customer Supported Assets are appropriately licenced and have (where required) Supplier recommended hardware and vendor support in place.
- f. The Customer is responsible for all configuration backups outside of the Supported Assets without exception.
- g. The Customer is responsible for completing a Request for Change (RFC) in accordance with the Supplier's Change Management Process
- h. The Customer shall ensure that all relevant Customer employees have access to and have read the Supplier's Managed Services Handbook
- i. The Customer shall ensure an on-going availability of suitable Internet connection (if not provided by the Supplier)
- j. The Customer shall ensure 24x7x365 availability of a suitable Escalation Contact should the Supplier need to gain approval for an Emergency Change or to engage other aspects of the Customer's support functions
- k. The Customer shall provide suitable notice to any planned/scheduled maintenance that could affect the Customer Supported Assets including environmental changes. Failure to do so may result in Additional Service Charges.
- l. The Customer shall request permission from the Supplier in writing in the event that the Customer wishes to change the location of the Customer Assets and/or Supplier Assets from the address specified in the Contract. Any asset that has been moved without notification to ANS will be subject to additional service charges.
- m. During investigations into a potential a hardware or software fault it may be required to reseal certain elements of the device/infrastructure onsite or require a device inspection for LED status. This task sits with the Customer (unless the Supported Asset is located within the Suppliers Data Centres).
- n. If the Customer requires the Supplier to provide onsite hands and eyes support then this will be subject to Additional Service Charges.
- o. It should be noted that the Customer shall report Business Critical Incidents via telephone only. The Supplier cannot offer any Service Levels or Service Credits for Business-Critical Incidents raised via email.
- p. The Customer is responsible for providing and maintaining geoJSON formatted floor plans for the purposes of device planning and installation in the device management platform
- q. The customer is responsible for battery replacement in battery operated sensor devices
- r. The customer is responsible for ensuring sensor devices are not tampered with, moved or removed.
- s. If a failed Yanzi hardware unit is found to be under warranty and the fault falls under standard Yanzi RMA rules, the customer is required to ship the failed unit back to Yanzi for repair or replacement.
- t. Configuration of Power BI Visualisation on data outside of the database schema at time of service on-boarding

5. Assumptions

- a. All Customer Supported Assets and Production AWS and Azure Accounts within the Customer Supported Assets within this Contract are covered by a valid software maintenance and support agreement in line with this Contract Service Levels
- b. All Customer Supported Assets are in a Valid Supported Configuration at the point of contract start date
- c. All Customer specific pre-requisites have been completed before contract commencement
- d. The Customer will provide a suitable specification platform, operating system and connectivity for the Enterprise Monitoring collector server

6. Pre Requisites

- a. Deployment of ANS Monitoring and Device Management Tooling
- b. Platform and where applicable WMI access for all monitored services
- c. Registered Partner of Record and/or AWS Associated Partner registration (where required)
- d. Administrative Access Permissions for ANS Engineers on supported Subscriptions / Accounts and Customer Supported Assets
- e. GeoJSON formatted floorplans
- f. Yanzi Cloud Platform Subscription
- g. Yanzi Hardware Maintenance Contract
- h. Network Connectivity from Yanzi Devices to Yanzi Management Platform

7. Partner of Record

ANS' Managed Cloud for Azure incorporates Microsoft Signature Cloud Support for any issues that require escalation to Microsoft. In order for this to be able to be fulfilled, Microsoft leverage information collected from the Partner of Record (PoR) system to assign back end support rights. As such ANS must be registered as the digital PoR on any Subscriptions that contain or contribute to assets under support or management for the entire duration of the agreement. Consequently, the Customer shall, prior to the Commencement Date arrange for ANS to be registered as the PoR on all Subscriptions that contain or contribute to assets under support or management for the entire duration of this agreement.

8. Amazon AWS Associated Partner

Amazon AWS' partnership status is heavily reliant on demonstrating working relationships with AWS consumers, Amazon leverage information collected from the associated partner system to assign partnership status. As such ANS must be registered as the associated partner on any accounts that contain or contribute to assets under support or management for the entire duration of the agreement. Consequently, the Customer shall, prior to the Commencement Date arrange for ANS to be registered as the associated partner on all accounts that contain or contribute to assets under support or management for the entire duration of this agreement.