Vi-Vertix

SPECIALIZED IN MSP SOLUTIONS FOR:

- IT Monitoring
- Log & Data Management
- IT Asset Management

MANAGING AN IT INFRASTRUCTURE HAS NEVER BEEN EASIER

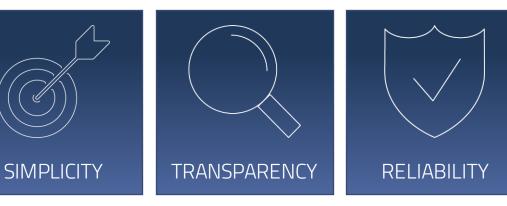
Agenda

- 1. About i-Vertix
 - 2. i-Vertix IT Monitoring overview
 - 3. i-Vertix Log Management overview
 - 4. Licensing & Pricing
 - 5. Key Technical and Selling Points
 - 6. Success Stories
 - 7. i-Vertix Partner Program
- 8. Q&A



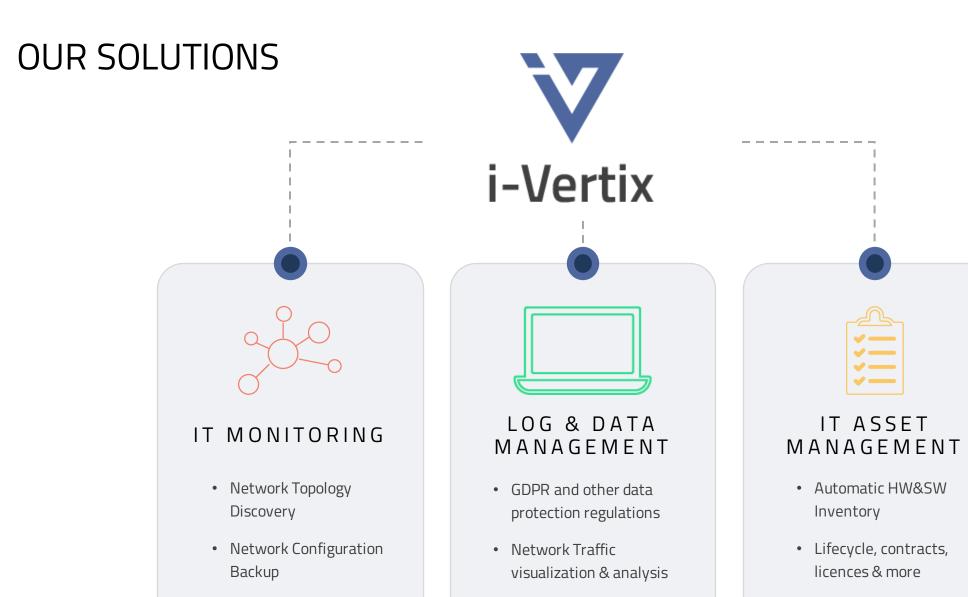
• Italian company

- Specialized in Enterprise MSP solutions
- More than 20 years of experience in the field













i-VERTIX IT MONITORING

KEY FEATURES

Complete overview of infrastructure and services

Purpose-built for MSP and Enterprise

2

ITOps: several integrations available (ITSM, CMDB & automation)

3

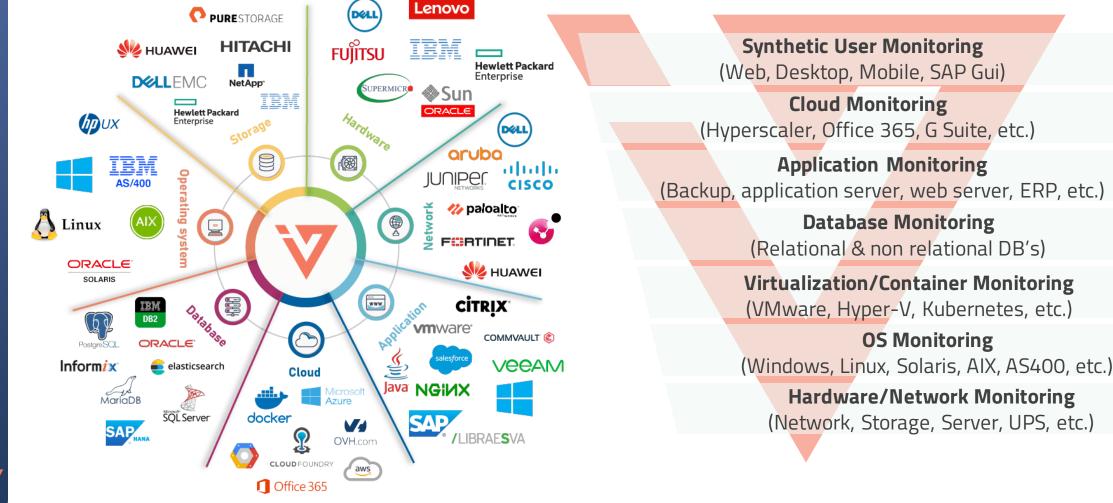
4

Intuitive, performing & simple to use Flexible licensing options

5

6 Very fast ROI

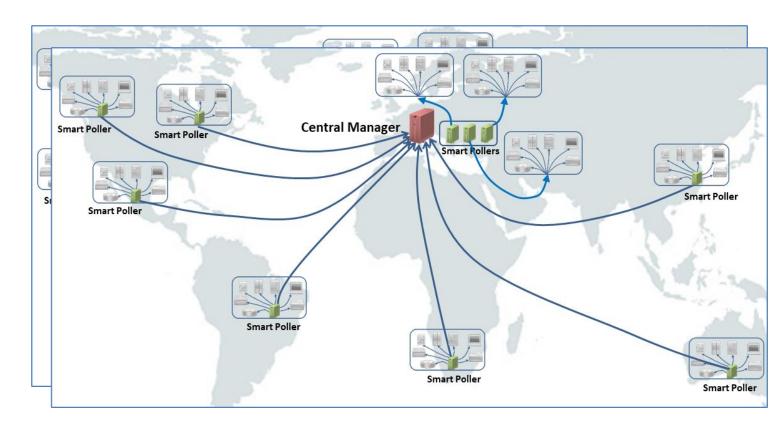
IT INFRASTRUCTURE & APPLICATION MONITORING FOR SERVICE PERFORMANCE



IT INFRASTRUCTURE & PLICATION MONITORING R SERVICE PERFORMANC

DEPLOYMENT SCENARIOS

- i-Vertix Central Manager deployed on premises, in private or public cloud
- Distributed architecture that natively fits geographically distributed environments
- Smart Pollers (virtual or hardware appliance with optional 4G module) able to work independently of Central Manager
- HA option for Central Manager
- Highly scalable (tens thousands devices, hundreds thousands monitors)
- TLS encrypted communication available between Smart Pollers & Central Manager





i-VERTIX HARDWARE APPLIANCE

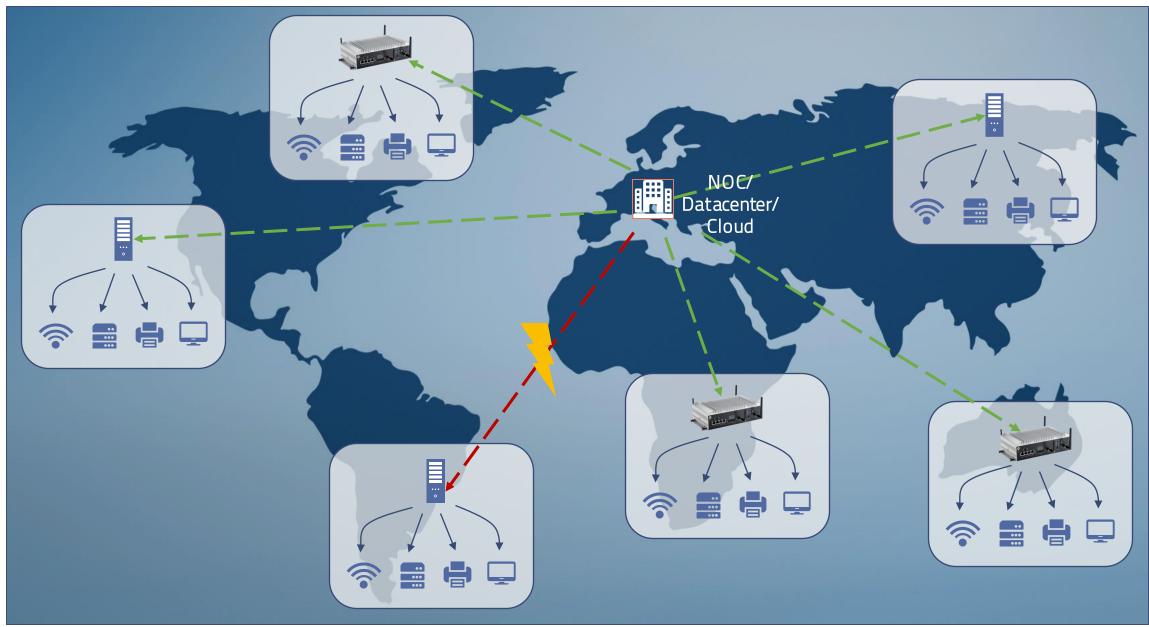
	Cloud Poller, Small Branch Offices	Cloud Poller, Branch Offices, loT	Branch Offices, Industries, IoT, extreme environment
	i-Vertix Office	i-Vertix Pro S2	i-Vertix ProL
СРИ Туре	Intel Celeron J1900	Intel i5-7200U	Intel i5-4300U
CPU GHz	2 GHz	2.50 GHz	1.90 GHz
CPU No. Cores	4	2 (4 Threads)	2
RAM	DDR3 2GB	DDR4 4GB	DDR3 8GB
HD Type	SSD mSATA-6Gb/s	M.2 SSD	SSD MLC SATA-6Gb/s
HD Size	64 GB	120 GB	64 GB
LAN	1 x 1Gb	2 x 1Gb	2 x 1 GB+ 4 Port PoE Switch
Serial / USB Ports	4 x USB 2.0 1 x USB 3.0	4 x RS232 + 2 x RS485 4 x USB 2.0 4x USB 3.0	2 x RS232 2 x USB 2.0 2 x USB 3.0
4G Module	✓ (Optional)	×	×
Digital input ports	×	×	6 x in, 2 x out
Shock resistant	×	×	×
Temperature range	0°C – 40°C	0°C – 60°C	-20°C – 60°C
IP40/IP67	×	×	×





10

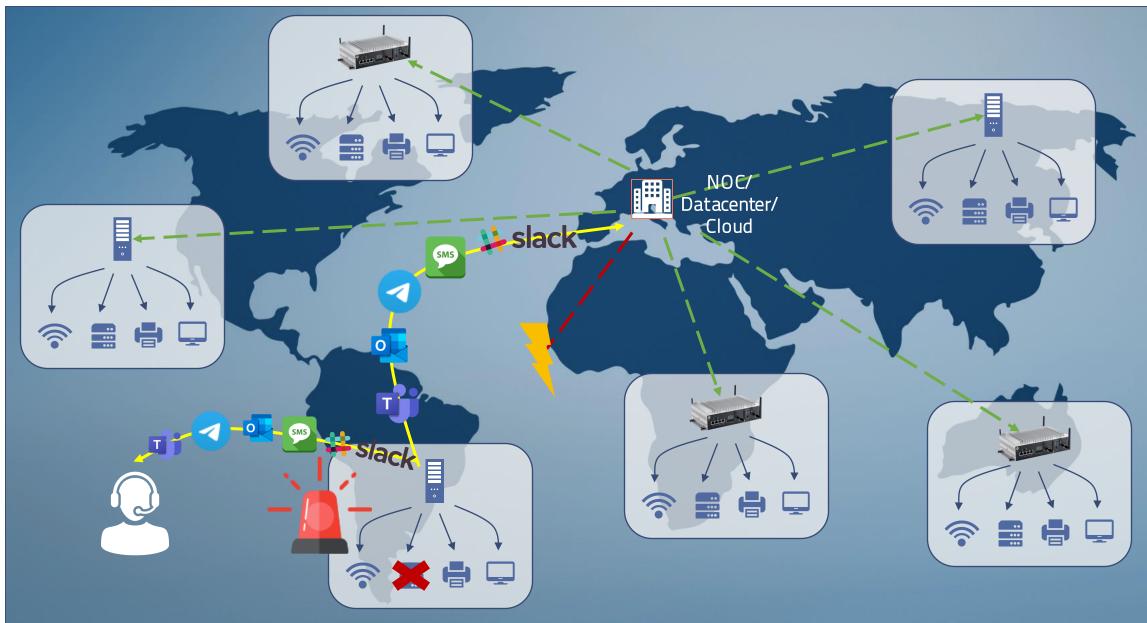
SMART POLLERS





11

SMART POLLERS

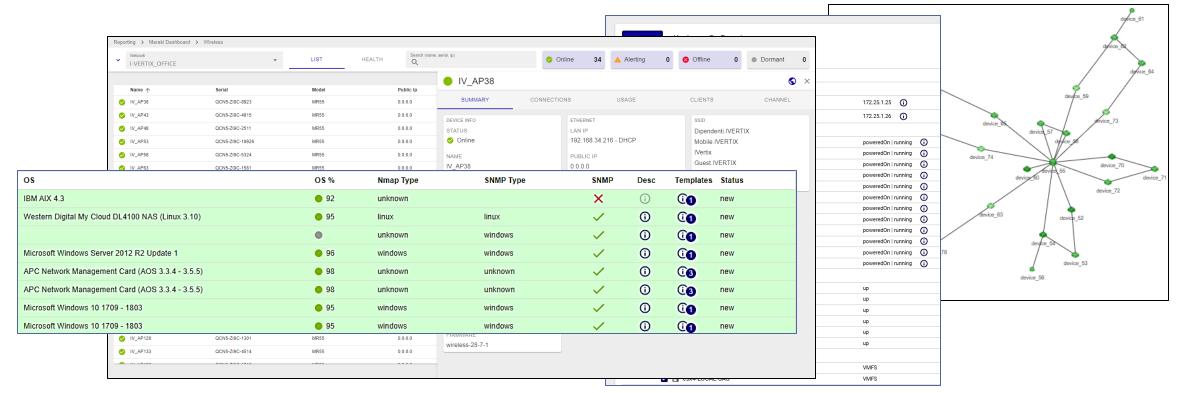


MULTIPLE DISCOVERY METHODOLOGIES FOR FAST ONBOARDING

Different types of granular discoveries let the user easily filter/select services and hosts that are to be discovered and monitored.

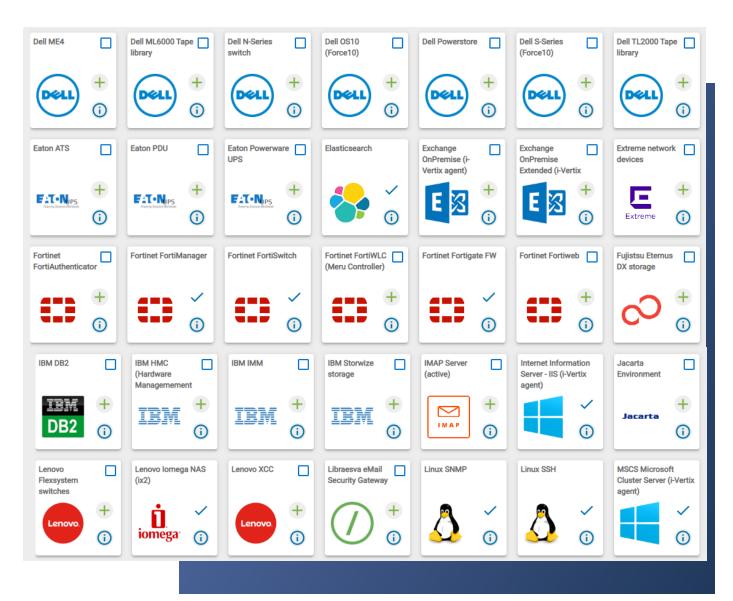
- Network Topology Discovery: Layer 2/3 discovery that creates comprehensive network topology maps.
- Host/Device Discovery: scans any network, subnet, or IP address.
- VMware Discovery: scans VMware environment (Datacenter, Clusters, Hosts, Datastores, VMs, NICs).
- Cisco Meraki: discovers cloud Cisco Meraki infrastructures (APs and Switches)

Discovery results are matched with preconfigured monitoring templates to automate monitoring configuration.



PLUGIN STORE

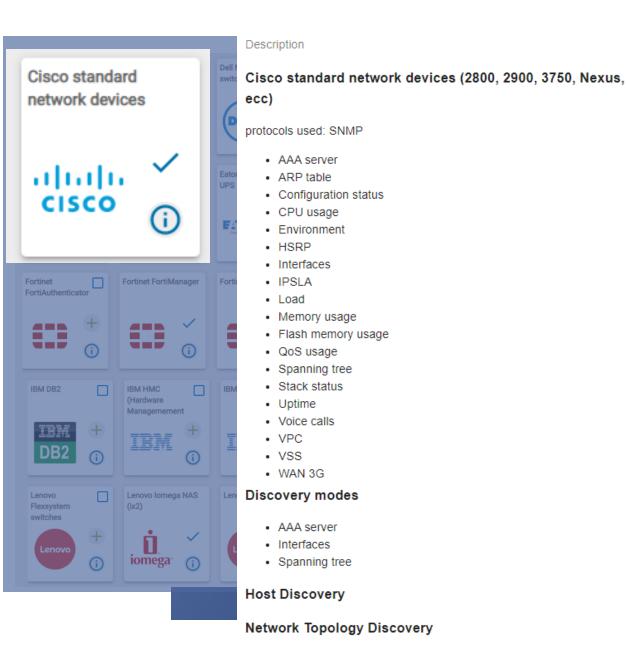
- Support for over 600 devices, technologies and applications out of the box (network, database, cloud, storage, OS, applications, etc.)
- Templates & autodiscovery features included
- Easy to install & quick plugin update
- Ready to use





PLUGIN STORE

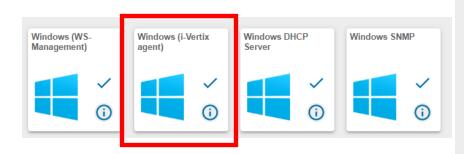
- Support for over 600 devices, technologies and applications out of the box (network, database, cloud, storage, OS, applications, etc.)
- Templates & autodiscovery features included
- Easy to install & quick plugin update
- Ready to use



00 Таре twork ernus ver (i-Vertix

PLUGIN STORE

- Support for over 600 devices, technologies and applications out of the box (network, database, cloud, storage, OS, applications, etc.)
- Templates & autodiscovery features included
- Easy to install & quick plugin update
- Ready to use



Windows (WS-Management)

protocols used: wsman (HTTP/HTTPS)

- · CPU usage
- Eventlog
- Files date
- Files size
- Interfaces
- Memory
- Pagefile
- · Pending reboot
- Processes
- Services
- Services auto start
- Service DHCP Client
- Service DNS Client
- Service Plug & Play
- Service Server
- Service TCP/IP NetBIOS Helper
- Service Windows Event Log
- Service Workstation
- Sessions
- Storages
- NTP time
- Uptime



IN-CONTEXT ALARMS, STATUS AND PERFORMANCE REPORTING

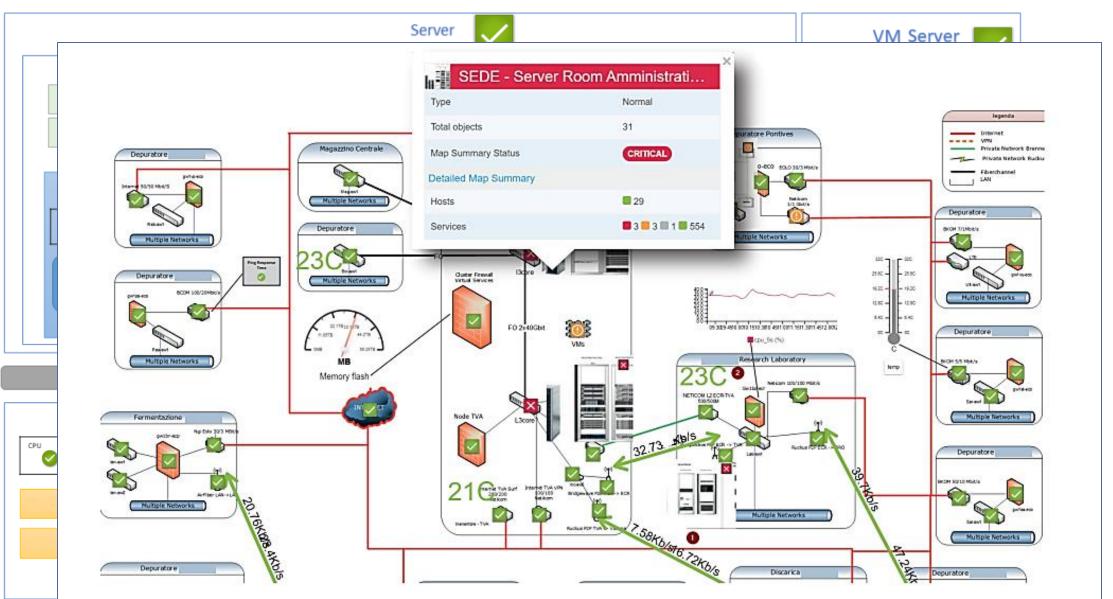
pollers								hosts 0 0	3 V 888 services	
wonit	oring > Resources Status							All	360 All	3,593
\$	New filter	▼ Q Search	② SEARCH	^				Down	0/0	ical 13/21
Ð	Resource 🔻	State Status	✓ Host group	-	Service group		EAR	Unreachable	• Wa	
								• Up	348	nown 315/318
	ACKNOWLEDGE	SET DOWNTIME 🗘 CHECK ••• (C II					Pending	Rows Ok	^{3,233} < <
	UNKNOWN	Packet Errors ens192	SRV-Linux		1. 2M 2d	3/3 (H)	1w 5d	UNKNOWN: No interface found.	• Per	iding 0
	UP	V i-Vertix-Central		N F	8M 1w	1/3 (H)	1w 5d	OK - 127.0.0.1 rta 0.122ms lost 0%		
	UP	∆ SRV-Linux			1M 4w	1/3 (H)	1w 5d	ок - 192.168.56.101 rta Host Status Sur	nmary 🦳 Se	rvice Status Summary
	UP	H www.i-vertix.com			3w 4d	1/3 (H)	29s	OK: Response time on port 443 is 0.066s	CPU	
	ОК	V i-Vertix Broker stats - Broker Master	i-Vertix-Central		1. 8M 1w	1/3 (H)	1w 5d	OK: Broker statistics are ok	OK i-Vertix-Central	
	ОК	🔻 i-Vertix Broker stats - Broker Module Master	😑 i-Vertix-Central		1. 8M 1w	1/3 (H)	1w 5d	OK: Endpoint output 'central-module-master-output'	DETAILS	TIMELINE GRA
	ОК	V i-Vertix Broker stats - Broker RRD	i-Vertix-Central		1. 8M 1w	1/3 (H)	1w 5d	OK: Broker statistics are ok		
	ОК	V i-Vertix Count Hosts/Services	i-Vertix-Central		1. 8M 1w			, Number of	1 DAY 7 DAYS	31 DAYS FROM: 06/03/2022 4:20 PM TO: 07/04/2022 4:20 PM
	ОК	V Gorgone - Nodes	i-Vertix-Central		uh 1M 4w Dr	ill down	into specific	Alarm – Alarm details		10. 0//04/2022 4.20 PM
	ОК	📰 SSH login	i-Vertix-Central		11. 1w 6d	1/3 (H)	1w 5d	OK: authentication succeeded - Response time 0.12	CPU	graph on mon-001.i-vertix.cloud
	ОК	V TCP Selenium response time	i-Vertix-Central		11. 8M 1w	1/3 (imeline with	n recent Alarm instances 🐠	0.0	
	ОК	CPU	i-Vertix-Central		11. 3w 4d	1/3 (H)	1w 5d	OK: 1 CPU(s) average usage is 9.00 % - CPU '0' us	96	
	ОК	V Gorgone - Events	i-Vertix-Central		11. 1M 4w	1/3 (H)	1w 5d	Performance Graph	8-	i
	ОК	system Load	i-Vertix-Central		11. 1w 6d	1/3 (H)	1w 5d		7-	
	ОК	(NTP	i-Vertix-Central		11. 8M 3d	1/3 (H)	1w 5d	OK: Time offset 0 second(s): Local Time : 2022-06-2	6-	
	ОК	(Uptime	i-Vertix-Central		11. 1w 6d	1/3 (H)	1w 5d	OK: System uptime is: 8h 22s, Linux i-vertix3robertc	5	Make debukai shifti.
	ОК	Ping Ping	😑 i-Vertix-Central		11. 8M 1w	1/3 (H)	1w 5d	OK - 127.0.0.1 rta 0.030ms lost 0%	31	ANWANG INDIAGAMANA
	ОК	🐵 PHP-FPM usage - pool ITAM	🌔 i-Vertix-Central		11. 3w 6d	1/3 (H)	1w 5d	OK: php-fpm active processes: 1 (33.33%), idle proc	2 MAMMANA AL VIVAL	IN A LEE DI LONDA IA AL N. L. L. DAL A M. A. D. D.A
	ОК	PHP-FPM usage - pool Monitoring	😑 i-Vertix-Central		11. 3w 6d	1/3 (H)	1w 5d	OK: php-fpm active processes: 1 (100.00%), idle pro	1	
	ОК	PHP-FPM usage - pool www	i-Vertix-Central		11. 3w 6d	1/3 (H)	1w 5d	OK: php-fpm active processes: 1 (16.67%), idle proc	06/05/2022 06/12/2	022 08/19/2022 08/26/2022 07/03/2
	ОК	V Process - centengine	i-Vertix-Central		11. 8M 1w	1/3 (H)	1w 5d	OK: Number of current processes running: 1 - Total	cpu_0 (%) (%)	cpu_1 (%) (%) (%)
	OK	V Process - gorgone-action	😑 i-Vertix-Central		1M 4w	1/3 (H)	1w 5d	OK: Number of current processes running: 1 - Total	Min: 1.64 Max: 7.81 Avg: 2.94	Min: 1.8 Max: 8.04 Min: 1.83 Max: 8.1 Avg: 3 Avg: 3.06

Avg: 2.97

Avg: 2.99

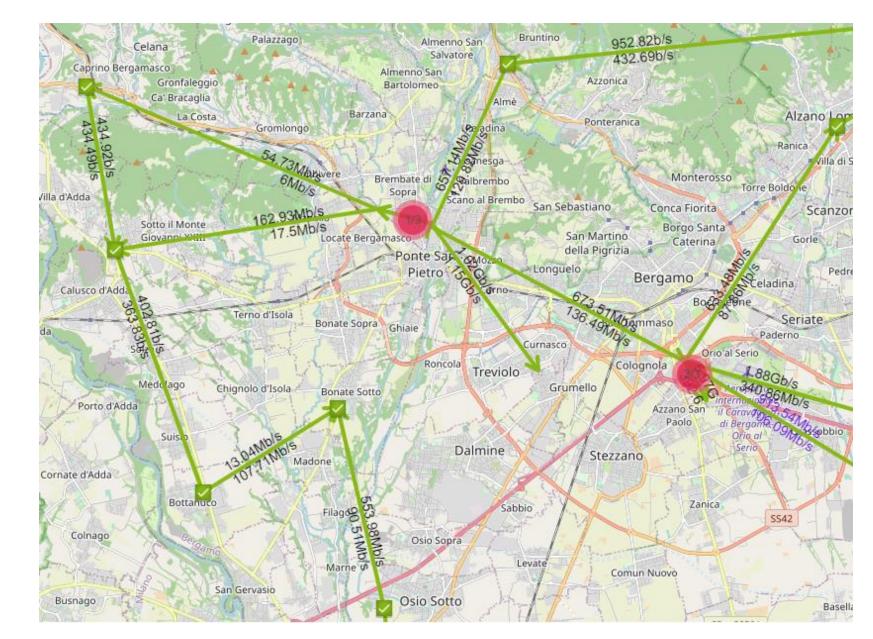
V

SERVICE AND DEVICE STATUS, PERFORMANCE DATA, THRESHOLDS VIOLATIONS EXPOSED ON MAPS, INFORMATIVE POP-UP





STATIC OR DYNAMIC GEOLOCALIZED MAPS







Oracle RDBMS monitoring

protocols used: Oracle Client (example: TCP 1521)

- ASM Diskgroup usage
- · Connected users
- · Connection time
- · Corrupted blocks
- Data File status
- Dataguard status
- Dictionary Cache usage
- · Event waits usage
- Fast Recovery usage
- Invalid objects
- Library Cache usage
- Long queries
- · Password expiration
- Process usage
- Redolog usage
- RMAN backup age
- RMAN backup problems
- RMAN Online backup problems
- Rollback Segment usage
- SQL numeric: custom SQL with numeric response
- · SQL string: custom SQL with string response
- Tabelspace usage
- TNS Ping

Discovery modes

- ASM Disk groups
- Tablespaces

iops	
16 14	
12.	
10-	
8-	
6-	
4-	
2.	
07	110/2022 07/17/2022 07/24/2022 07/31/2022 08/07/2022
	raffic.io.usage.iops (iops)
Min: 0.03 Avg: 1.51	Max: 15.8
ring. Lor	
	Sunday, August 7, 2022 3:19 AM OK Tries: 1
9	OK: SGA dictionary cache get hit ratio 97.81%
	Sunday, August 7, 2022 3:14 AM OK Tries: 2
	OK: SGA dictionary cache get hit ratio 100.00%
	Sunday, August 7, 2022 3:13 AM WARNING Tries: 1
9	WARNING: SGA dictionary cache get hit ratio 92.93%
	Sunday, August 7, 2022 3:08 AM OK Tries: 1
	OK: SGA dictionary cache get hit ratio 96.54%
	Sunday, August 7, 2022 3:08 AM 💿 notif-teams
$\overline{}$	OK: SGA dictionary cache get hit ratio 96.54%
	Sunday, August 7, 2022 3:03 AM CRITICAL Tries: 3
	CRITICAL: SGA dictionary cache get hit ratio 85.28%

ОК	Ping
ОК	Oracle TNS ping
ОК	Oracle Tablespace usage - USERS
ОК	Oracle Tablespace usage - SYSTEM
ОК	Oracle Tablespace usage - SYSAUX
ОК	Oracle Tablespace usage - DIVA4
ОК	Oracle Session usage
ОК	Oracle Rollback Segment usage
ОК	Oracle RMAN backup problems
ОК	Oracle RMAN backup age
ОК	Oracle Redolog usage
ОК	Oracle Process usage
ОК	Oracle Long Queries
ОК	Oracle Library Cache usage
ОК	Oracle Invalid Objects
ОК	Oracle Fast Recovery usage
ОК	Oracle Event Waits usage
ОК	Oracle Dictionary Cache usage
ОК	Oracle Datacache hitratio
ОК	Oracle Data File status

VMware

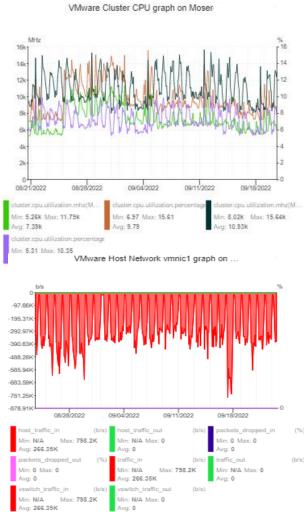
Resource (Host a	and services)	Information	Performance
ОК	😰 VMware Snapshot usage size	Tuesday, September 20, 2022 11:58 AM	VN
ОК	VMware Connector statistics	OK: Total rate of reading data: 284.00 KB/s, Total rate of writing	MHz 16kg
ок	P VMware vMotion Operations	data: 750.00 KB/s - Datastore '3PAR-SAS-LUN1' : accessible true, rate of reading data: 284.00 KB/s, rate of writi	14x- 1 NAA
ОК	P VMware Cluster CPU		104-1
ОК	P VMware Datastore latency 3PAR-SAS-LUN1	Tuesday, September 20, 2022 11:58 AM OK Tries: 1	a Mary
ОК	VMware Datastore usage 3PAR-SAS-LUN1	OK: Cluster 'Standard' status is green [ha enabled: false] [drs enabled: false]	4k- 2k-
ОК	VMware Datastore count VM 3PAR-SSD-LUN3		06/21/2022 0
ОК	VMware Datastore IO 3PAR-SSD-LUN3	Tuesday, September 20, 2022 11:58 AM OK Tries: 1	cluster.cpu.utilization.r Min: 5.26K Max: 11.75
ОК	VMware Datastore IOPS 3PAR-SSD-LUN3	OK: All snapshots are ok	Avg: 7.39k cluster.cpu.utilization.p Min: 5.31 Max: 10.35
ОК	😰 VMware Datacenter Alarm		
ОК	VMware VM Snapshot age	Saturday, September 17, 2022 11:43 PM WARNING Tries: 3	-97.66K
ОК	😰 VMware VM Tools status	WARNING: Host 'srvesx3local' : physical interface 'vmnic0' traffic out: 922.87Mb/s (88.01 %)	-195.31K -292.97K
ОК	🗗 VMware License usage		-390.63K -488.28K
CRITICAL	😰 VMware Host Alarm	Status information	-585.94K+ -683.59K+
CRITICAL	VMware Host storage adapters	CRITICAL: Host 'srvesx2.1	-781.25K -878.91K 08/28/2 host_traffic_in Min: N/A Max:
		'vmhba1:C0:T2:L0' status: dead - path 'vmhba1:C0:T3:L0' status: dead	Avg: 266.35K

checking host 'srv-. - -esx2...

status connected, maintenance mode is false

.local'

aph



Avg: 0

Veeam

Veeam Backup monitoring

protocols used: HTTPS (i-Vertix agent)

- Backup job status
- · Tape job status
- License expiration & usage
- Repositories
- VSB Jobs

Discovery modes

- Backup jobs
- Repositories

	OK		齞	Veeam Repositories
	OK		齞	Veeam Repositories
	OK		齞	Veeam License
	OK		齞	Veeam License
	OK		齞	Veeam Job Status - efb02-backup-copy
	OK		齞	Veeam Job Status - efb02-backup
	OK		瓵	Veeam Job Status - efb01-backup-copy
	OK		欱	Veeam Job Status - efb01-backup
-	1 %	Φ	齞	Veeam Job Status - doc03-backup
	OK		齞	Veeam Job Status - bck01-backup
	OK		闿	Veeam Job Status

Status information

OK: Number of licenses: 1 - License [[type: perpetual] status: valid, instances total: 6 used: 0 (0.00%) free: 6 (100.00%) License [[type: perpetual] status: valid, instances total: 6 used: 0 (0.00%) free: 6 (100.00%)

Status information

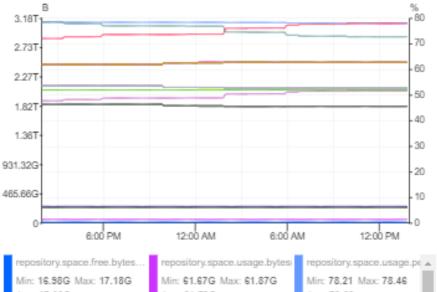
:

OK: Total jobs: 1 - Job 'efb01-backup-copy' status: success [type: BackupSync],

started since: 1d 8h 52m 39s

Job 'efb01-backup-copy' status: success [type: BackupSync], started since: 1d 8h 52m 39s





repusitury.space.rree.uyies	repusitory.space.usage.uytesi	repusitory.space.usage.pe 🛦
Min: 16.98G Max: 17.18G	Min: 61.67G Max: 61.87G	Min: 78.21 Max: 78.46
Avg: 17.06G	Avg: 61.79G	Avg: 78.36
repository.space.free.bytes	repository.space.usage.bytes	repository.space.usage.pr
Min: 2.9T Max: 3.13T	Min: 2.87T Max: 3.1T	Min: 47.84 Max: 51.71
Avg: ST	Avg: ST	Avg: 49.95
repository.space.free.bytes	repository.space.usage.bytesi	repository.space.usage.pe
Min: 2.47T Max: 2.5T	Min: 2.1T Max: 2.14T	Min: 45.62 Max: 46.41
Avg: 2.49T	Avg: 2.11T	Avg: 45.94
repository.space.free.bytes	repository.space.usage.bytesi	repository.space.usage.pr



SAP - AWS - AZURE

SAP E2E

SAP R/3 monitoring

- Protocols used: SAP client (TCP)
- CCMS All Monitoring Contexts Background Long running jobs
- CCMS All Monitoring Contexts BackgroundService
- CCMS All Monitoring Contexts BusinessComunication
- CCMS All Monitoring Contexts InstaceAsTask
- CCMS All Monitoring Contexts OperatingSystem
- CCMS All Monitoring Contexts R3Abap
- CCMS All Monitoring Contexts R3Syslog
- CCMS All Monitoring Contexts SpoolNumebers
- CCMS Monitor Template Dialog Overview
- CCMS Monitor Template Engueue
- CCMS Monitor Template OperatingSystem
- Connection time
- Process count
- Exceed failed jobs
- Failed IDOCS
- Failed job
- Failed updates
- List IDOCS
- List jobs
- List processes
- Shortdumps counts
- Shortdumps recurrence
- Uptime
- Workload overview

SAP HANA DB monitoring

Protocols used: SAP HANA client for Linux

- Blocked transactions
- Connected users
- Connection time
- Disk usage
- Host CPU usage
- Host memory usage
- Volume usage

SAP Sybase ASE database monitoring

Protocols used: Sybase client (TCP)

- Blocked processes
- Connected users
- Connection time
- Database size
- Custom SQL

AWS

- Check Amazon API Gate way (AmazonApiGateway)
- Check AWS Backup.
- Check Amazon Billing.
- Check Amazon CloudFront.
- Check Amazon CloudWatch.
- Check Amazon CloudWatchLogs.
- Check Amazon Elastic Block Store (Amazon EBS).
- Check Amazon Elastic Compute Cloud (Amazon EC2).
- Check Amazon Elastic File System (Amazon EFS).
- Check Amazon ElastiCache.
- Check Amazon Application Elastic Load Balancing (Amazon Application ELB).
- Check Amazon Classic Elastic Load Balancing (Amazon Classic ELB).
- Check Amazon Network Elastic Load Balancing (Amazon Network ELB).
- Check Amazon shared File Systems (Amazon FSx).
- Check Amazon Health service.
- Check Amazon Kinesis Stream related metrics (AWS/Kinesis Service).
- Check Amazon Lambda.
- Check Amazon Relational Database Service (Amazon RDS).
- Check Amazon Simple Storage Service (Amazon S3).
- Check Amazon Simple Email Service (Amazon SES).
- Check Amazon Simple Notification Service (Amazon SNS).
- Check Amazon Simple Queue Service (Amazon SQS).
- Check AWS Transit Gateways.
- Check Amazon Site-To-Site VPN (Amazon VPN).

AZURE

•

٠

aws

- Check Microsoft Azure Event Hubs namespaces & clusters.
- Check Microsoft Azure classic storage account.
- Check Microsoft Azure Kubernetes Service.
- Check Microsoft Azure Disks attached to Virtual Machines
- Check Microsoft Azure Functions Service.
- Check Microsoft Azure virtual machine.
- Check Microsoft Virtual Machine Scale Sets.
- Check Microsoft Azure Cosmos DB Accounts.
- Check Microsoft Azure SQL Elastic Pools.
- Check Microsoft Azure Database for MariaDB resources.
- Check Microsoft Azure Database for MySQL resources.
- Check Microsoft Azure Redis Cache service.
- Check Microsoft Azure SQL Databases (Microsoft.Sql/Servers/Databases)
- Check Microsoft Azure SQL Managed Instance.
- Check Microsoft Azure SQL Server.
- Check Microsoft Azure App Configuration.
- Check Microsoft Azure Event Grid.
- Check Microsoft Azure Service Bus namespaces.
- Check Microsoft Azure API Management service.
- Check Microsoft Azure Application Insights resources.
- Check Microsoft Azure Automation.
- Check Microsoft Azure monthly costs VS budget for subscription/resource group,
- Meta Plugin for Microsoft Azure resources discovery.
- Check Microsoft Azure Insights metrics service using Loganalytics API.
- Check Microsoft Azure Log Analytics
- Check Microsoft Azure monitor service using API.
- Check Microsoft Azure backup service, replication and failover health.
- Check Microsoft Azure resource manager.

Check Microsoft Azure ExpressRoute.

Check Microsoft Azure FrontDoor service.

Check Microsoft Azure network interface.

Check Microsoft Azure Virtual Network.

Check Microsoft Azure VPN gateways. Check Microsoft Azure Key Vaults.

Check Microsoft Azure storage account

Check Microsoft Azure App Service.

Check Microsoft Azure Storage Sync service.

Check Microsoft Azure Signal R resources.

Check Microsoft Azure Network LoadBalancers.

Check Microsoft Azure Traffic Manager service.

Check Microsoft Azure Container Registry (ACR) service.

Check Microsoft Azure Web App Service Plan resources.

Check Microsoft Azure Firewalls.

Check Microsoft Azure Public IPs.

Check Microsoft Azure Network Application Gateway resources.
 Check Microsoft Azure CDN profile service.

AWS

AWS EC2 instance monitoring

protocols used: awscli, Rest API

- CPU usage
- Disk IO
- Network
- Instance status

AWS RDS (Relational Database Service) monitoring

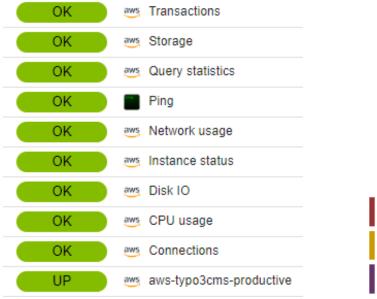
protocols used: awscli (Rest API) You can get an overview of all gathered metrics from AWS/RDS in the official documentation.

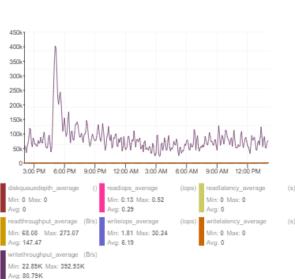
Monitored objects

- Instances (MySQL, MariaDB, Oracle, SQL Server ...)
- Clusters (Aurora, ...)

Monitored metrics

- Connections
- CPU usage
- Disk IO
- Instance status
- Network
- Query statistics (Only available on Aurora MySQL)
- Storage usage
- Transactions (Only available on Aurora MySQL and partially Postgres)
- · Volume usage (Only available on Aurora MySQL and Postgres)





Disk IO graph on aws-typo3cms-productive

Status information

÷

- OK: Instance 'typo3cms-productive' average CPUCreditBalance: 576.00,
- CPUCreditUsage: 0.46, CPUUtilization: 4.80 %
- Instance 'typo3cms-productive' average CPUCreditBalance: 576.00, CPUCreditUsage: 0.46, CPUUtilization: 4.80 %

Sunday, August 7, 2022 2:25 AM

OK Tries: 1

Tries: 2

OK: Total instances available : 1, failed : 0, backing-up : 0, maintenance : 0, stopped : 0, storage-full : 0 - Instance 'typo3cmsproductive' state :

Sunday, August 7, 2022 2:24 AM WARNING

WARNING: Total instances available : 0

VIRTUALIZATION AND CONTAINERS

Х

S

D

Ν

pi

D



Docker	Description Kubernetes monitoring
Status + NOT INSTALLED Description	protocols used: Rest API (HTTPS) Cluster events Cronjob status Daemonset status Deployments status Node status Node usage Persistent Volume status Pod status Replicaset status Replicaset status Replication Controller status
Docker monitoring	Statefulset status Discovery modes Cronjob status
protocols used: Rest API (HTTP/HTTPS) Container usage Node status Service status	 Daemonset status Deployment status Namespace - Cluster Events Namespace - Cronjob status Namespace - Daemonset status Namespace - Deployment status Namespace - Pod status
Containers	Namespace - Replication Controller status Namespace - Replicaset status Namespace - Statefulset status Node status Node usage Persistent Volume status Pod status Pod status
	 Replicaset status Replication Controller status Statefulset status

🛞 Kubernetes (API)

+ NOT INSTALLED

Status

25

ALARMS & ACCESS CONTROL

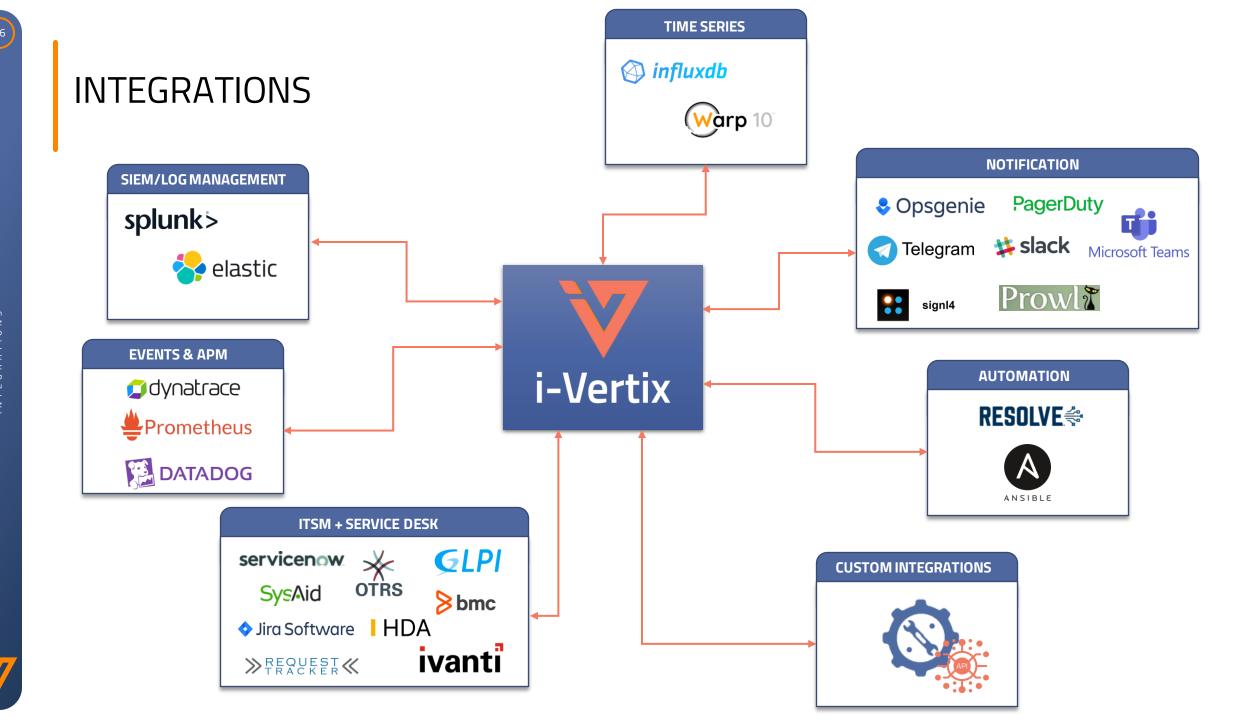
ALARM MANAGEMENT

- Configuration of the centralized alarm Management
- Alerts sent by i-Vertix Poller through different channels (Mail, SMS, Pagerduty, Slack, Telegram, Teams, ...)
- ITSM connectors available
- Escalation Management

ACCESS CONTROL/ACL

- Granular RBAC
- Local authentication, AD/LDAP, OpenID (MFA, SAML, Office 365, ...)
- Configurable menu
- ACL for single resources (Host, Services)
- ACL for actions





NETWORK CONFIGURATION BACKUP

- Automatic backup of network devices configurations
- Multi brand support
- Configurations saved in a GIT repository

Version E

- Versions comparison
- Integrated in i-Vertix IT Monitoring
- MSP ready

2021-09-27 22:13:17	
	Vers
[CHANGED]	
@@ -68,8 +68,6 @@ switch 1 provision ws-c2960s-48lps-1	
68 switch 2 provision ws-c2960s-24ps-1	68 switch 2 provision ws-c2960s-24ps-1
69 !	69 !
70 !	70 !
71 - login on-failure log	
72 - login on-success log	
73 vtp domain	71 vtp domain
74 vtp mode transparent 75 !	72 vtp mode transparent 73
/3 1 00 -178,7 +176,7 00 interface GigabitEthernet1/0/1	73 1
switchport mode access	176 switchport mode access
79 I	177 1
80 interface GigabitEthernet1/0/2	178 interface GigabitEthernet1/0/2
81 - description "DPC-231"	179 + description "Spedizione Stampante"
182 switchport access vlan 161	180 switchport access vlan 161
<pre>183 switchport mode access</pre>	181 switchport mode access
.84	182 !
@@ -203,7 +201,7 @@ interface GigabitEthernet1/0/6	
<pre>203 switchport mode access 204 !</pre>	201 switchport mode access 202 !
204 ! 205 interface GigabitEthernet1/0/7	202 ! 203 interface GigabitEthernet1/0/7
06 - description "DPC-232"	2004 + description *
107 switchport access vlan 161	205 switchport access vlan 161
switchport mode access	206 switchport mode access
109	207 !
@@ -549,7 +547,6 @@ ip default-gateway 192.168.150.1	
ip http server	547 ip http server
550 ip http secure-server	548 ip http secure-server
51 ip sla enable reaction-alerts	549 ip sla enable reaction-alerts
52 - logging 192.168.150.130	
553 snmp-server community <configuration removed=""> 554 snmp-server trap link ietf</configuration>	550 snmp-server community <configuration removed=""> 551 snmp-server trap link ietf</configuration>
554 snmp-server trap link ietf 555 snmp-server trap timeout 60	551 snmp-server trap link ietf 552 snmp-server trap timeout 60
Simpreserver trap timeout ou	→ → →

Version A

Pricing criteria and definitions

IT Monitoring

Easy licensing structure including the entire monitoring feature set and unlimited concurrent users

• Number of **Hosts**.

Host: a **device**, with one or more IP address: Network infrastructure device, server, storage, UPS, virtual host, virtual machine, web server host/URL, cloud host, etc.

Note: A host can have any number of interfaces, elements or monitors/sensors/services, including the ones of any Applications running on it.

• Number of Smart Pollers

Most often, 1 Smart Poller per main remote site o per Customer. 1 Smart Poller can typically monitor 8.000 - 10.000 services. Exact number depends on polling interval, number and type of monitored services.

- Add-ons
 - Network Topology Discovery & Mapping (included in tiers ≥ 1000 hosts)
 - Network Configuration Backup
- Years of Service/Subscription
- High Availability option
- Test Environment(s)

Exceptions:

• It can be **licensed per service**. A **service** is a single monitoring element: a status parameter or a performance metric. Other vendors call it "monitor", "sensor", "element". E.g.: PING, Interface, CPU load, etc.

IT Monitoring - Editions and pricing models

For resale to End Customers

Perpetual Edition (CAPEX)

- Perpetual product, one-time license purchase
- Yearly maintenance support, 1st year included free of charge

Subscription Edition (OPEX)

- Yearly subscription (includes support)
- "Break-even" is 3 years

Cloud SaaS Edition for SMB (OPEX)

- No tiers, no unused licenses, no upfront costs. Monthly fee based on number of Hosts or Services and Smart Pollers used
- Includes i-Vertix support and proactive monitoring
- Includes periodic installation of updates & patches (Central Management & Pollers), Hosting, Backup

For MSP services

MSP pay-per-use Edition (OPEX)

- No tiers, no unused licenses, no upfront costs. Monthly fee based on number of Hosts and Smart Pollers used. Fast & easy new customer enrollment & fully predictable budgeting
- Minimum number of monitored Hosts = 1000
- Includes i-Vertix support and proactive monitoring
- Includes periodic installation of updates & patches (Central Management & Pollers)
- Maximum flexibility: MSPs can dynamically adjust the extension of their services





I-VERTIX LOG & DATA MANAGEMENT

KEY FEATURES 3 2 Log centralization from High performance scalable & flexible Real-time and a architecture to meet any needs different sources posteriori analysis 5 6 4 Log classification per GDPR Cost-effective licensing not Easy creation of related to log sources, volumes and other data protection custom dashboards regulations and rates

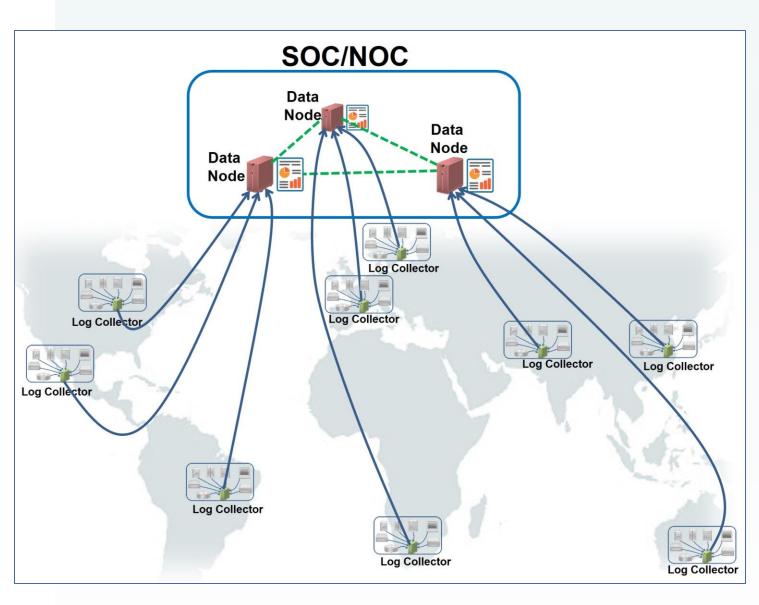
V



V

ARCHITECTURE

- i-Vertix Data Node on premises, in private or public cloud
- i-Vertix Log Collector at main remote sites
- High availability & load balancing option for the Data Nodes
- Flexibility and scalability to meet any needs
- Log Collector features:
 - Parsing
 - Normalization
 - Ingestion
 - Archival
 - Compression
 - Encryption
- TLS encryption between Log Collector & Data Node



REAL TIME DASHBOARD

Intuitive analysis & visualization of collected data

Quick & easy top down analysis

Preconfigured dashboards

Identification of problems, anomalies, errors, etc.

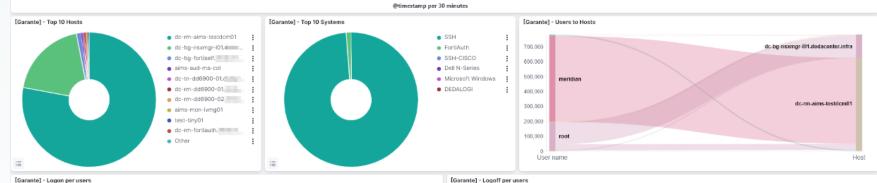




AUTHENTICATION ANALYSIS

- Normalization of authentication events, regardless of source type
- Centralized analysis of authentication events, regardless of source type
- An excerpt of supported sources:
 - Windows authentications
 - Windows NPS authentications
 - Office365
 - Linux SSH
 - IBM iSeries
 - Network devices, storages, etc.





User	 Working hours 	V No. Event	\sim	First Event	\sim	Last Event	
meridian	outside	171.679		Dec 8, 2021 @ 18:00	0:	Dec 9, 2021 (07:59:
meridian	inside	115.496		Dec 8, 2021 @ 17:40	0:	Dec 9, 2021 (<u>)</u> 17:03:
root	outside	56.562		Dec 8, 2021 @ 18:00	0:	Dec 9, 2021 (07:59:
root	inside	37.594		Dec 8, 2021 @ 17:30	0:	Dec 9, 2021 (9 17:03:
ddgmon	outside	2.072		Dec 8, 2021 @ 18:01	1:	Dec 9, 2021 (07:53:
ddgmon	inside	1.330		Dec 8, 2021 @ 17:46	6:	Dec 9, 2021 (0 16:55:
net-rancid@local	outside	1.402		Dec 8, 2021 @ 18:07	7:	Dec 9. 2021 @	D 07:58:

User	\sim	Working hours	\sim	No. Event	\sim	First Event 🗸	Last Event
meridian		outside		172.453		Dec 8, 2021 @ 18:00:	Dec 9, 2021 @ 07:5
meridian		inside		115.911		Dec 8, 2021 @ 17:40:	Dec 9, 2021 @ 17:03
root		outside		56.130		Dec 8, 2021 @ 18:00:	Dec 9, 2021 @ 07:5
root		inside		37.299		Dec 8, 2021 @ 17:30:	Dec 9, 2021 @ 17:03
ddgmon		outside		1.036		Dec 8, 2021 @ 18:01:	Dec 9, 2021 @ 07:5
ddgmon		inside		665		Dec 8, 2021 @ 17:46:	Dec 9, 2021 @ 16:5
uproton		outside		326		Dec 8. 2021 @ 18:25:	Dec 9. 2021 @ 07:5

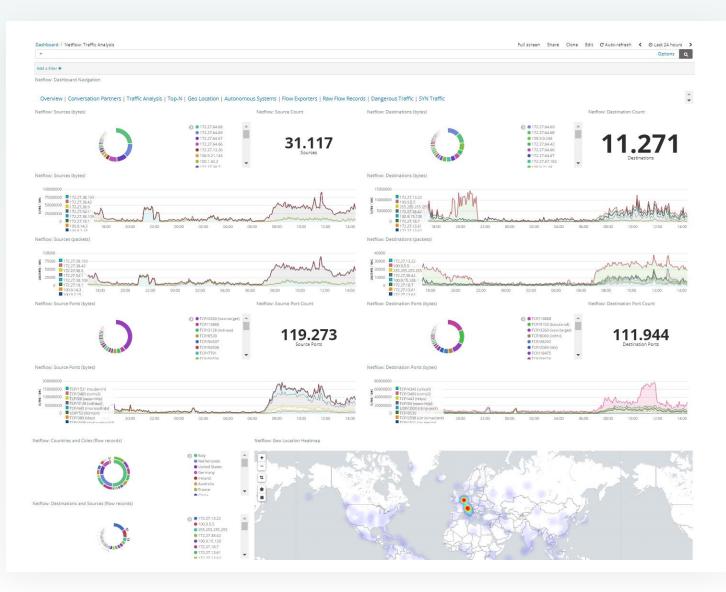


ENTICATION ANALYSIS

< <u>1</u> 2 3 4 >

NETWORK TRAFFIC FLOWS ANALYSIS

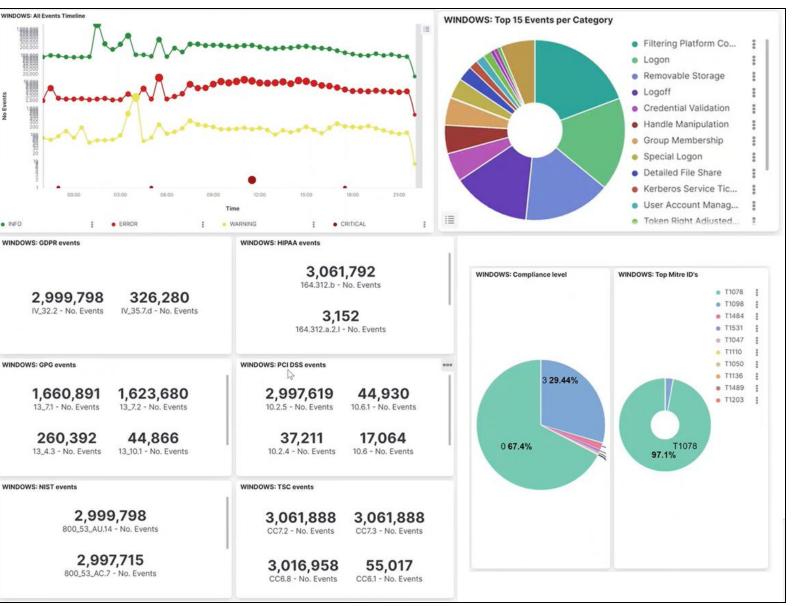
- Netflow v5/v9 collector
- IPFIX collector
- sFlow collector
- Real time monitoring of network traffic & flow
- Dangerous sources detection (Malware, Ransomware, Tor)
- Creation of alarms on network traffic events (in combination with IT Monitoring)





HELP WITH DATA PRIVACY REGULATIONS COMPLIANCE

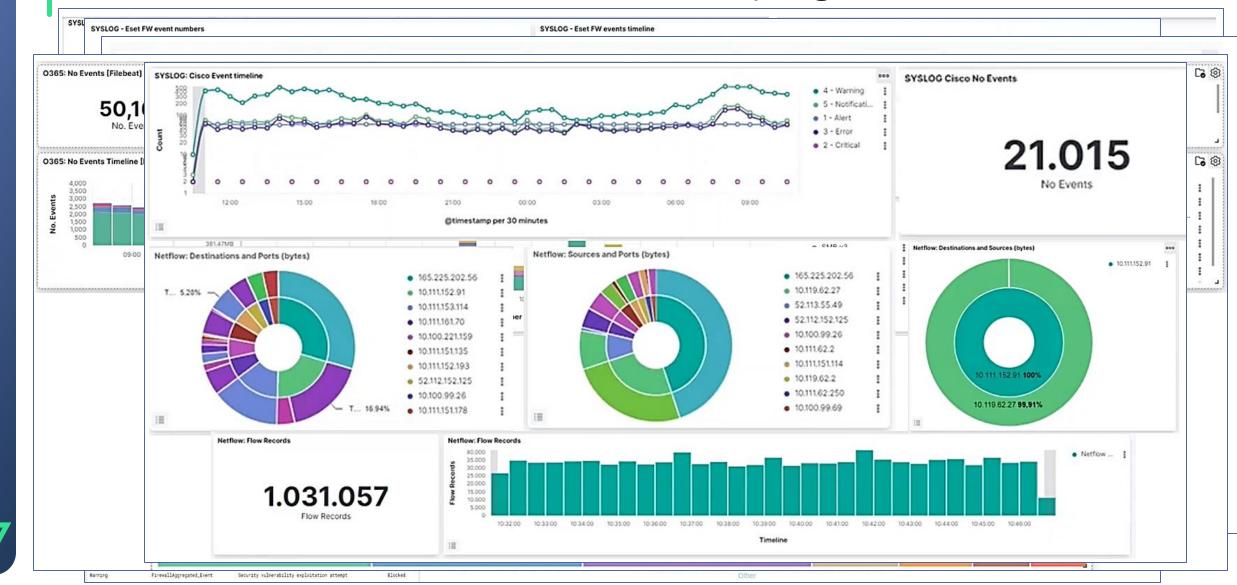
- Regulatory compliance readiness support and visibility
- Applicable to Windows EventLog and Syslog messages
- Log Classification: GDPR, PCI DSS, GPG, HIPAA, NIST 800-53, TSC, Garante Privacy frameworks and standards
- Include specific information related to MITRE ATT&CK techniques
- Detect early indicators of attacks, reveal issues and provide forensic evidence



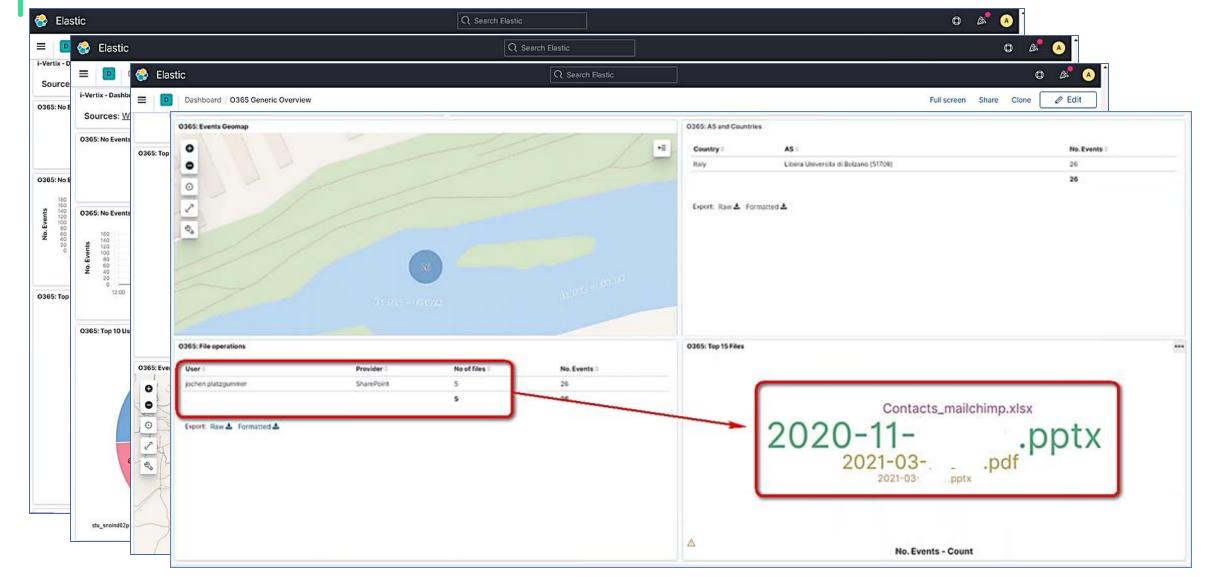
WINDOWS & SYSLOG: COMPLIANCE

V

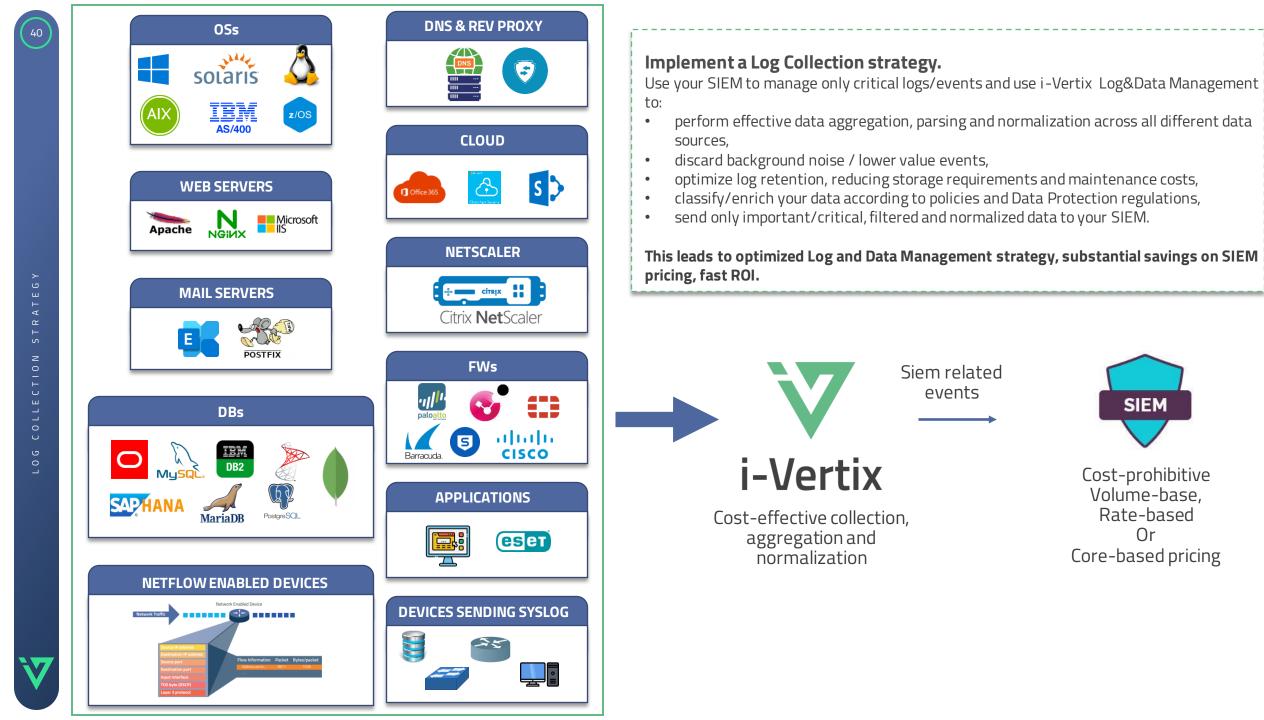
LOG MANAGEMENT EXAMPLES Eset, Fortinet, Microsoft Office 365, Cisco Syslogs, Netflow



LOG MANAGEMENT EXAMPLE Microsoft Office 365 \rightarrow SharePoint







Pricing criteria and definitions

Log&Data Management

- Number of **Data Nodes** 2 Log Collectors are included FOC
- Additional Log Collectors
- Years of Service/Subscription
- High Availability option (3+ Data Nodes)
- Test Environment(s)

<u>No limits on log rate or log volume per day or number of log sources</u>



Log&Data Management - Editions and pricing models

For resale to End Customers

Standard Edition

- Perpetual Model (CAPEX)
 - Perpetual product, one-time license purchase
 - Yearly maintenance support, 1st year included free of charge
- Subscription Model (OPEX)
 - Yearly subscription (includes support)
 - "Break-even" is 3 years

Platinum Edition Subscription Model (OPEX)

- All capabilities of Standard Edition +
 - Enhanced Alerting and Reporting
 - LDAP/AD authentication; SSO (SAML, OpenIDConnect)
 - Encryption at rest / FIPS 140-2 mode
 - Machine Learning
 - Etc.
- Yearly subscription (includes support)

For MSP services

MSP pay-per-use Model (OPEX)

- No tiers, no unused licenses, no upfront costs. Monthly fee based on number of Data Nodes and Log Collectors. Fast & easy new customer enrollment & fully predictable budgeting
- Includes i-Vertix support
- Includes periodic installation of updates & patches (Data Nodes and Log Collectors)
- Maximum flexibility: MSPs can dynamically adjust the extension of their services



QUICK RECAP - KEY POINTS

Key technical and selling points - IT Monitoring

- Simple, clear and effective all-in-one pricing. No hidden costs
- The most flexible licensing on the market: customer can choose, per-device (with unlimited monitors/services) or per-monitor/service, + Smart Pollers
- Smart Pollers that guarantee continuity of monitoring activities/services
- Completeness: 600+ devices/applications supported "out of the box"
- Vendor agility and speed when it comes to adding a feature, monitoring new devices, integrating with 3rd party tools
- **MSP-grade solution**: distributed architecture, multi-tenancy, role-based access control, massive scalability, fast customer onboarding
- **MSP-grade support** that includes ordinary maintenance
- **Multiple deployment options**: on-premises, in Cloud, hybrid, hosted and SaaS
- Integrations with 3rd party solutions (ITSM, CMDB, Automation, etc.) that preserve existing IT investments & "know-how"
- Comprehensive REST API framework
- "Beyond IT Monitoring": multi-platform Synthetic User Monitoring



Key technical and selling points - Log & Data Management

- Simple, clear and effective per "Data Node and Log Collector" licensing and pricing. No hidden costs
- **Completeness**: **30+** log formats supported "out of the box" and support of **custom** ones
- Vendor agility and speed when it comes to adding a feature, supporting new log sources, integrating with 3rd party tools
- **MSP-grade solution**: distributed architecture, multi-tenancy, role-based access control, massive scalability, fast customer onboarding
- Multiple deployment options: on-premises, in Cloud, hybrid
- Integrations with 3rd party solutions that preserve existing IT investments & "know-how"
- Comprehensive REST API framework
- **"Beyond Log Management"**: log enrichment, geo-localization and classification to help with Data Protection regulations and industry standards compliance

SUCCESS STORIES

SUCCESS STORIES – IT Monitoring

THE CUSTOMER

Large government institution, providing digital online services to nearly 5 million citizens

GOALS & CHALLENGES

- Proactively monitor the whole IT infrastructure using a consolidated solution
- Constantly check **health and performance of online applications** to guarantee services availability to citizens
- Rationalize investment and meet budget constraints

SOLUTION

- **i-Vertix IT Monitoring** installed On Prem in customer DC
- Around 20 Smart Pollers, both virtual and HW appliance, deployed across DC and main sites
- Tens thousands monitors configured, including around 500 Synthetic User Monitoring scenarios

BENEFITS

- Modernization of IT Monitoring service, via replacement and consolidation of 3 platforms
- Rationalization of IT investments and efforts
- Simplified platform maintenance and administration
- Agility to support new IT projects, equipment and applications
- Increased visibility/control and responsiveness, with 60% incidents resolution time reduction



SUCCESS STORIES – Log&Data Management

THE CUSTOMER

Large MSSP providing Infrastructure and Security managed services from its NOC/SOC

GOALS & CHALLENGES

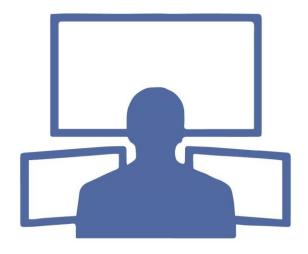
- Offer Log Management services to 100+ customers using a consolidated solution
- Easily onboard new customers
- Easily support new log sources and formats
- Scale, sustaining growing log rates and volumes while meeting systems specs. and storage budget constraints in order to offer a reasonably-priced service to customers
- **Data retention** > 6 months for Data Privacy regulations compliance

SOLUTION

- i-Vertix Log&Data Management installed On Prem in MSSP DC SOC
- 5 Data Nodes in HA cluster configuration
- 1 to 3 Log Collectors per customer, installed at customers' sites (130+ Log Collectors in total)
- 8 billion log records, 4+TB data in Elastic
- Long term backup on S3

BENEFITS

- Enriched service portfolio/offering
- Fast customer onboarding
- Simple platform maintenance and administration
- Ability to quickly support new log sources and formats requested by new customers



PARTNER PROGRAM

NEXT TO OUR PARTNERS

- 3 levels available: Active, Silver e Gold
- Presales & marketing support
- Technical & commercial trainings/certifications
- Competitive prices & discounts
- NFR license/Cloud instance
- Joint events





BENEFITS

	Active	Silver	Gold
Brochures	✓	✓	 Image: A start of the start of
Client case studies	✓	✓	 Image: A start of the start of
Pre-sales demonstration	 Image: A second s	 	 Image: A start of the start of
Discount on licenses, tech support, training	 Image: A second s	 	 Image: A start of the start of
Pre-sales training	 Image: A set of the set of the	 	 Image: A start of the start of
Temporary license for PoC demonstration	 Image: A second s	 Image: A set of the set of the	 Image: A start of the start of
NFR i-Vertix		 	\checkmark
New version information		 Image: A start of the start of	\checkmark
Communication and/or joint events		 	 Image: A start of the start of
Discounts on expert professional services, trainings, certifications		 Image: A start of the start of	 Image: A start of the start of
Technological innovation Workshops			 Image: A start of the start of
QoS meetings			
Roadmap preview			\checkmark

51

OUR CONTACTS

PGUM SRL

Headquarter NOI TechPark – building D1 Ipazia street, 2 39100 Bolzano, Italy <u>https://i-vertix.com/en/</u> <u>sales@i-vertix.com</u> +39 0471 1430170

Paolo Ferrari paolo.ferrari@i-vertix.com







THANK YOU FOR YOUR ATTENTION!

