

# Magic Quadrant pour l'infrastructure LAN filaire et sans fil d'entreprise

Publié le 15 novembre 2021 - ID G00 739263 - 40 min de lecture

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Les réseaux câblés et sans fil d'entreprise doivent prendre en charge un large éventail de cas d'utilisation professionnelle. Les responsables I&O doivent identifier les fournisseurs qui fournissent le matériel approprié ainsi que des outils de gestion automatisés et intelligents qui fournissent un aperçu des problèmes de réseau, de l'expérience de l'utilisateur final et des performances des applications.

## Hypothèses de planification stratégique

D'ici la fin de 2025, l'intelligence artificielle (IA), l'apprentissage automatique (ML) et l'automatisation amèneront 10 % des entreprises à mettre en œuvre des réductions permanentes de leurs effectifs de techniciens réseau débutants.

D'ici 2024, 80 % des entreprises qui alignent les plans d'exploitation du réseau sur les objectifs de l'entreprise connaîtront une croissance plus rapide que leurs concurrents qui ne le font pas, contre 25 % en 2020.

## Définition/Description du marché

Ce document a été republié le 29 novembre 2021. Le document que vous consultez est la version corrigée. Pour plus d'informations, consultez la page [Corrections](#) sur gartner.com.

La vision du marché de Gartner se concentre sur les technologies ou les approches de réseau d'entreprise transformationnelles qui répondent aux futurs besoins technologiques des utilisateurs finaux. Il n'est pas axé sur le marché de la technologie tel qu'il existe aujourd'hui.

Gartner définit le marché des infrastructures LAN câblées et sans fil d'entreprise comme celui des fournisseurs fournissant du matériel de réseau câblé et sans fil, ainsi que les logiciels de réseau associés. Les produits de ce marché permettent aux appareils et aux utilisateurs finaux de se connecter au réseau local filaire ou Wi-Fi de l'entreprise pour soutenir la mission organisationnelle requise. Les périphériques réseau pris en charge incluent les périphériques exploités par l'utilisateur final tels que les ordinateurs portables, les smartphones et les équipements de bureau en réseau ; et les appareils non actionnés par l'utilisateur tels que les appareils Internet des objets (IoT).

Cette recherche n'inclut pas les dispositifs d'infrastructure de réseau filaire et sans fil dont le but principal est de prendre en charge les marchés adjacents tels que les lieux publics et les environnements industriels, ou les solutions WAN point à point.

Les principales capacités de la zone locale câblée et sans fil d'entreprise comprennent les technologies, les composants matériels et la portée géographique du marché suivants.

## Matériel – Les fonctionnalités de base des éléments de réseau physique incluent :

- Points d'accès Wi-Fi
- Commutateurs de réseau Ethernet adaptés au déploiement au niveau des couches d'accès au réseau, de distribution et de réseau central
- Contrôleurs Wi-Fi (physiques, virtuels ou basés sur le cloud)

Logiciels – Applications de service réseau basées sur le cloud, l'appliance ou l'appliance virtuelle. Les capacités de base incluent, mais ne sont pas limitées à :

- La gestion du réseau
- Surveillance du réseau
- Portails d'accès invités
- Services d'intégration d'appareils en libre-service
- Intégration de la sécurité réseau (par exemple, IPS, IDS, 802.1X, sécurité DNS, détection d'anomalies, etc.)
- Application/intégration de la politique réseau
- Services de localisation WLAN
- Visibilité des applications et/ou gestion des performances
- Outils d'assurance réseau compatibles avec l'IA et le ML
- Outils d'automatisation du réseau
- Gestion dédiée des appareils non utilisateurs (IoT) et atténuation de la sécurité
- Interface de dépannage en langage naturel

Portée du marché géographique – Fournisseurs fournissant et prenant en charge l'infrastructure LAN filaire et sans fil d'entreprise dans au moins quatre des cinq principales zones géographiques identifiées par Gartner :

- Asie-Pacifique
- Amérique latine
- Moyen-Orient et Afrique
- L'Europe
- Amérique du Nord

## Quadrant magique



Figure 1. Magic Quadrant pour l'infrastructure LAN filaire et sans fil d'entreprise



Source : Gartner (novembre 2021)

#### Points forts et mises en garde du fournisseur

##### ALE

Alcatel-Lucent Enterprise (ALE) est un acteur de niche dans ce Magic Quadrant. ALE s'adresse au marché des réseaux d'entreprise avec ses commutateurs filaires OmniSwitch et ses produits de point d'accès sans fil OmniAccess. La société fournit des politiques automatisées de gestion du réseau, de provisionnement et d'application de la sécurité informatique via sa plate-forme de gestion sur site ou cloud OmniVista, ainsi que l'automatisation des flux de travail via son logiciel de flux de travail Rainbow en tant que service (SaaS). Les opérations d'ALE sont principalement concentrées dans la région EMEA. Cependant, la société a également des opérations existantes en Asie/Pacifique, en Amérique du Nord et en LATAM. Les clients de la société appartiennent principalement aux marchés de la santé, du gouvernement et des transports.

##### Forces

- **Expertise des marchés verticaux :** les clients ayant des besoins complexes en matière de mise en réseau sur des marchés spécialisés ciblés par ALE peuvent bénéficier de son expertise spécifique à l'industrie par rapport à des concurrents qui peuvent s'adresser aux mêmes marchés verticaux avec des équipes moins spécialisées.

- **Approvisionnement simplifié du réseau** : la technologie Intelligent Fabric d'ALE simplifie le déploiement, les déplacements, les ajouts, les modifications et la surveillance/la gestion du réseau, permettant un cadre plus automatisé, y compris pour les appareils IoT.
- **Capacités étendues de gestion de réseau** : la solution de gestion de réseau sur site OmniVista d'ALE fournit des analyses riches pour surveiller les performances des applications et prend en charge l'intégration de l'IoT. OmniVista Cirrus fournit la gestion du réseau sous forme d'offre SaaS, plus largement axée sur la simplification du provisionnement du réseau pour les PME.

## Précautions

- **À la traîne dans la fonctionnalité AIOps** : les capacités AI/ML sont moins riches en fonctionnalités par rapport à certains concurrents, en particulier les capacités d'auto-réparation et d'assistant réseau.
- **Absence de capacités avancées de contrôle d'accès au réseau** : alors qu'ALE propose OmniVista pour des exigences NAC simplifiées, les déploiements NAC plus complexes reposent sur l'intégration d'Aruba Clearpass. Cela peut augmenter les coûts de déploiement dans certains scénarios et entraîner le recours à un fournisseur tiers.
- **Viabilité limitée du marché** : ALE a l'une des plus petites empreintes de marché de tous les fournisseurs de cette étude. L'entreprise a des poches de force en Europe, mais il y a très peu de pénétration du marché en dehors de cette zone.

## Télésis allié

Allied Telesis est un acteur de niche dans ce Magic Quadrant. Il s'adresse au marché des réseaux d'entreprise avec ses commutateurs filaires de la série x et ses points d'accès de la série TQ. La société fournit ses produits Autonomous Management Framework (AMF) et Autonomous Wave Control (AWC) pour une vue opérationnelle intégrée des applications, des clients et des périphériques réseau sur l'ensemble du réseau. Les produits Allied Telesis couvrent à la fois les espaces des grandes entreprises et des MSE ; cependant, plus de 60 % des clients d'Allied Telesis sont situés au Japon. Gartner s'attend à ce que l'entreprise augmente ses investissements dans la configuration, l'automatisation et la fonctionnalité AI/ML de Vista Manager EX , sa plate-forme de gestion de réseau.

## Forces

- **Rentable** : Allied Telesis propose l'une des solutions de mise en réseau d'entreprise les plus rentables du marché.
- **Outils d'automatisation** : VistaManager permet une application simplifiée des politiques, une mise en forme automatisée du trafic, l'identification et la hiérarchisation des applications.
- **Focus sur Integrated Network Fabric** : Le portefeuille de réseaux d'Allied Telesis a la simplicité d'être attrayant pour les entreprises de taille moyenne (MPE), mais les caractéristiques, les fonctionnalités et les options de performance pour s'adapter aux déploiements de réseaux de grandes entreprises.

## Précautions

- **Portefeuille Wi-Fi 6 limité** : Allied Telesis est à la traîne de l'industrie avec un seul modèle de point d'accès Wi-Fi 6 (802.11ax) . Le reste de son portefeuille AP est uniquement 802.11ac.

- **Technologies avancées de gestion de réseau limitées** : VistaManager n'inclut aucune résolution automatique des problèmes via AI/ML ; par conséquent, il ne peut pas offrir une corrélation et une résolution des problèmes ou une assurance basée sur l'intention.
- **Mélange d' exigences de configuration GUI et CLI** : même lors de l'utilisation de l'interface GUI, de nombreuses commandes de configuration, telles que les configurations de protocole de routage de base, nécessitent de revenir à la CLI, ce qui augmente la complexité et la possibilité d'erreur humaine.

## Réseaux Arista

Arista Networks est un visionnaire dans ce Magic Quadrant. Il propose ses commutateurs spine-leaf séries 7000, 750 et 720XP en plus de ses points d'accès sans fil série C-200. Sa stratégie Cognitive Campus Network s'appuie sur ses applications de gestion CloudVision pour les commutateurs filaires et les composants WLAN, qui ont commencé principalement sur le marché des centres de données. Cependant, Arista continue de pénétrer l'espace réseau des grandes entreprises. Ses activités sont diversifiées sur le plan géographique, mais sa clientèle se situe principalement en Amérique du Nord et tend à appartenir aux secteurs de la finance, de la haute technologie et de la santé. Arista s'appuie sur des principes de conception cloud et des architectures basées sur des feuilles de colonne vertébrale similaires dans ses offres de campus comme dans ses produits de centre de données.

## Forces

- **Capacités avancées d' IA/ML** : Ava, l'analyste de sécurité autonome d'Awake, fournit à CloudVision à la fois un contexte pour les problèmes des clients et la capacité de répondre de manière proactive. Awake Security est la division de sécurité de détection et de réponse réseau (NDR) d'Arista Networks.
- **Engagement renforcé envers la sécurité** : en 2021, Arista a intégré son acquisition Awake Security, qui offre une visibilité, une détection et un confinement des menaces à l'échelle du réseau pour améliorer sa capacité à fournir un portefeuille de sécurité de campus plus complet .
- **Nouvelle fonctionnalité de flux de travail automatisé** : en avril 2021, Arista a publié ses studios CloudVision pour fournir la définition et le mécanisme permettant de résoudre de manière proactive les problèmes de réseau de campus avec un flux de travail automatisé.

## Précautions

- **Une sécurité de sillage coûte cher pour certains marchés ciblés** : Le prix de 50 000 \$ à 70 000 \$ pour la plate-forme Awake est disproportionnellement plus élevé que des solutions similaires et limitera la pénétration dans de nombreux segments de marché tels que l'enseignement supérieur et les MSE.
- **Défis liés à la portée mondiale** : Arista dispose de ressources limitées en matière de canaux et de ventes sur le marché intermédiaire, en particulier en dehors de l'Amérique du Nord et de l'Europe, ce qui entrave sa capacité à atteindre et à soutenir les petits clients dans ces régions.
- **Expérience limitée du réseau de campus** : bien qu'Arista ait une expérience significative des centres de données, il est difficile de pénétrer le marché des campus et dépend principalement des utilisateurs Arista en place pour stimuler la croissance du campus. Cela réduit l'expérience d'Arista sur le campus, en particulier dans les environnements LAN multifournisseurs .

## Réseaux Cambium

Cambium Networks est un acteur de niche dans ce Magic Quadrant. Le fournisseur s'adresse principalement aux marchés de l'éducation, de l'hôtellerie et des MSE avec ses gammes de points d'accès sans fil cnPilot et Xirrus, et sa gamme de commutateurs cnMatrix . Les opérations de Cambium Networks sont géographiquement diversifiées en dehors de la Chine, et Gartner s'attend à ce que la société continue d'investir dans une gestion basée sur le cloud riche en fonctionnalités et dans la simplicité de déploiement au sein de ses offres XMS-Cloud et cnMaestro.

## Forces

- **Base solide dans le sans fil** : Cambium offre une architecture sans contrôleur et distribuée qui place le contrôle des applications et des politiques, la localisation, l'analyse et la capacité de pare-feu dans les points d'accès . Certains modèles ont jusqu'à cinq radios intégrées pour une couverture haute densité, et les points d'accès avec plusieurs radios définies par logiciel offrent une voie de migration vers l'évolution des exigences Wi-Fi.
- **Fonctionnalités au niveau de l'entreprise** : malgré l'accent mis par Cambium sur le marché des MSE, la plate-forme de gestion cnMaestro comprend des fonctionnalités telles que la segmentation du réseau basée sur des politiques et l'approvisionnement sans contact, qui sont attrayantes pour le marché des entreprises au sens large.
- **Intégration IoT complète** : l'architecture de Cambium prend en charge l'empreinte digitale des appareils IoT via une automatisation basée sur des politiques, et les points d'accès avec pare-feu intégré effectuent le filtrage du trafic. EasyPass fournit une intégration automatisée pour les appareils IoT, ainsi que pour les employés et les invités.

## Précautions

- **Fonctionnalité AIOps limitée** : le moteur d'analyse de Cambium est limité à des cas d'utilisation moins complexes par rapport aux fonctionnalités d'IA plus avancées d'autres fournisseurs.
- **Portefeuille de réseaux câblés faible** : Cambium propose une sélection limitée de commutateurs de campus avec des ports multigigabit 802.3bz, de véritables capacités d'empilage, une redondance opérationnelle, un accès haute capacité et des capacités de commutation au niveau des couches centrales et de distribution.
- **Viabilité limitée du marché** : Cambium a l'une des plus petites empreintes de marché de tous les fournisseurs de cette recherche. Alors que les revenus de l'entreprise ont augmenté en 2020, les revenus des ventes d'infrastructures LAN filaires et sans fil ont représenté moins de 15 % des revenus globaux de l'entreprise.

## Cisco

Cisco est un leader dans ce Magic Quadrant. Ses produits Catalyst et Meraki répondent à la plupart des cas d'utilisation importants et MSE. Ses opérations sont géographiquement diversifiées et ses clients sont généralement des entreprises de toutes tailles dans une grande variété de secteurs industriels. Cisco a investi massivement dans DNA Center (DNA-C), qui est une plate-forme sur site compatible AI/ML qui fournit la gestion du réseau pour le matériel câblé et sans fil Catalyst. Cisco continue également d'investir dans le tableau de bord Meraki, qui est la plate-forme de gestion basée sur le cloud principalement pour les appareils Meraki.

## Forces

- **Vaste portefeuille filaire et sans fil** : L'étendue et la portée des écosystèmes de produits matériels et logiciels filaires et sans fil de Cisco lui permettent de répondre à des cas d'utilisation dans presque tous les scénarios.
- **Solide écosystème de canaux** : les ventes internes mondiales et le canal de partenaires de Cisco lui permettent de répondre et de prendre en charge les exigences d'ingénierie et d'approvisionnement avant-vente de l'entreprise, quel que soit le lieu .
- **DNA - Center Management Platform** : Cisco DNA-C active une plate-forme de gestion de réseau intégrée pour ses périphériques filaires et sans fil Catalyst. L'inclusion de l'IA et du ML pour prendre en charge l'assurance réseau peut réduire le temps de résolution des problèmes par rapport au dépannage CLI traditionnel, et intègre une visibilité approfondie sur le réseau, les applications et les expériences utilisateur.

## Précautions

- **Complexité de l'accès défini par logiciel (SD-Access)** : les clients de Gartner signalent des problèmes avec SD-Access, y compris la complexité du déploiement et les problèmes généraux d'intégration de l'environnement réseau architectural et " brownfield " .
- **Lignes de produits et outils déroutants et se chevauchant** : Catalyst se concentre sur les grandes entreprises, mais inclut également des produits axés sur les MSE. Meraki propose de nombreux produits axés sur les MPE, mais peut également répondre à certaines exigences des grandes entreprises. En outre, Cisco dispose de deux produits de gestion distincts : le centre DNA de Cisco et le tableau de bord Meraki, dont aucun n'est entièrement intégré aux gammes de produits Catalyst et Meraki.
- **Abonnement Catalyst DNA obligatoire de trois ans** : Tous les achats de commutateurs Catalyst 9000 nécessitent une licence DNA et un abonnement pour les trois premières années. Cependant, la valeur ultime des licences ADN reste à prouver, car la majorité des acheteurs de Catalyst n'utilisent pas encore DNA Center pour la gestion du réseau ou la mise en réseau SD-Access.

## CommScope

CommScope est un acteur de niche dans ce Magic Quadrant. Il propose des commutateurs et des points d'accès RUCKUS ICX pour répondre aux cas d'utilisation des MSE allant aux grandes entreprises.

CommScope fournit des capacités de gestion de réseau filaire et sans fil basées sur le cloud via ses produits RUCKUS SmartZone et RUCKUS Cloud. Ses opérations et ses clients sont mondiaux , la plupart des clients étant situés sur les marchés du gouvernement américain, de l'hôtellerie, de la santé et de l'éducation . Gartner s'attend à ce que CommScope se concentre sur l'augmentation des capacités de RUCKUS Cloud et de RUCKUS Analytics , ce qui minimisera la dépendance des produits aux configurations manuelles basées sur la CLI tout en élargissant ses capacités d'identification et de résolution de problèmes automatisées et basées sur l'IA/ML.

## Forces

- **Intelligence réseau intégrée** : RUCKUS Analytics utilise l'IA et le ML pour fournir une détection des anomalies affectant l'utilisateur final et une analyse des causes profondes sur l'infrastructure du réseau filaire et sans fil.

- **Intégration d'Ansible Automation** : CommScope fournit plus de 50 playbooks Ansible AWX prédéfinis qui permettent l'automatisation à l'échelle de l'entreprise des tâches chronophages et répétitives.
- **Portefeuille filaire et sans fil solide** : La gamme de produits RUCKUS comprend plusieurs points d'accès Wi-Fi 6 et 802.11ac ainsi que des commutateurs filaires couvrant l'accès réel, la distribution et les cas d'utilisation principaux avec des liaisons montantes de 1 à 100 Gbit/s. De plus, RUCKUS couvre à la fois les scénarios de déploiement des grandes entreprises et des MSE dans un seul portefeuille unifié.

## **Précautions**

- **Disjointed Problem Resolution in Management Platform**: RUCKUS Analytics does not offer an option for automatic issue resolution on the wired network. Furthermore, remediating identified issues cannot be accomplished directly through the RUCKUS Analytics interface.
- **Lack of Modular Switches**: With no modular chassis product, CommScope cannot adequately address high-density access or high-speed core/distribution use cases in which a common high-speed backplane and redundant management and power supplies are highly desirable.
- **Dynamic Virtual Segmentation Not Yet Available**: CommScope lags behind other enterprise-class vendors due to lack of available VXLAN dynamic segmentation capabilities. While CommScope expects to deliver this architecture before the end of 2021, eventual adopters should use caution when attempting integration into production during the first six to 12 months after release.

## **Extreme Networks**

Extreme Networks is a Leader in this Magic Quadrant. Its universal platform approach for wired switching is delivered to market via its 5420 and 5520 switches, and 300/400 Series wireless access points. Unified network management is provided via ExtremeCloud IQ, which is inclusive of AI-/ML-based issue identification and resolution. Extreme Networks' operations are geographically diversified, and its clients range from MSEs to large enterprises across various sectors. Extreme Networks will continue to invest in its CoPilot AI/ML and automation platform for simplified and centralized configuration, and network management capabilities across its product lines.

## **Strengths**

- **Platform-Agnostic**: ExtremeCloud IQ can be deployed on-premises or in private cloud with all three of the largest public cloud providers, with no functionality changes and unlimited data retention.
- **Advancement of AI/ML Platform**: Extreme Networks' CoPilot platform offers explainable ML/AI recommendations that can be automatically acted on based on deviations from its own baseline environment.
- **Universal Licensing**: Extreme Networks offers poolable and portable licenses across its platforms and portfolio, which means that additional license expenses are not incurred when the same application is moved from one component to another.

## **Cautions**

- **Global Reach Challenges**: Extreme Networks has global reach, but in-country presence in some areas of Asia or Latin America may vary depending on the vendor's go-to-market strategy.

- **Subpar Channel Training:** Customers and prospects report confusion with Extreme Networks' channel and product demonstrations, which may decrease their ability to deploy.
- **Migration Issues:** While Extreme Networks' universal APs and switches are being added to its portfolio, customers continue to be challenged with a limited migration strategy of features from acquired vendors until the integration is complete.

## **Fortinet**

Fortinet is a Visionary in this Magic Quadrant. Fortinet provides tight integration between its FortiAP and FortiSwitch products with its FortiGate security appliance. This enables Fortinet to position network security and network fabric management as the core of its enterprise network market strategy. Its operations are geographically diversified, and its clients range from MSEs to large enterprises across various sectors. Fortinet has recently integrated AI, ML and automation into FortiManager Cloud to offer automated incident identification, network optimization, and remediation. Gartner expects Fortinet to continue to invest heavily in increasing these cloud-based capabilities.

### **Strengths**

- **Pervasive Security Architecture:** Fortinet's go-to-market strategy emphasizes tight integration of pervasive security into all layers of its network architecture.
- **AIOps Capabilities:** FortiAIOps reduces time to identify and resolve operational issues across its security, wired and wireless portfolio through semiautomated network device issue identification and prompted issue remediation.
- **Integrated cloud management:** Fortinet has integrated most of its tools under a unified cloud-hosted interface that unifies network, security and application management functionality.

### **Cautions**

- **Lack of Large Enterprise Experience:** Fortinet still has little exposure outside of security infrastructure in large-enterprise deployments.
- **No Modular Switches:** Fortinet does not offer a chassis-based switch, which is necessary for most high-density access layers and high-speed network core use cases.
- **Overlapping Products, Tools and Licenses:** As Fortinet continues to add more functionality to its network and security management portfolio, it adds another "Forti"-branded product under the FortiCloud umbrella. The result is an expansive and confusing mix of tools and licenses.

## **H3C**

H3C is a Niche Player in this Magic Quadrant. H3C's S Series switches and WA Series wireless access points address network use cases that range from MSE through large enterprises. Its Application-Driven Campus (AD-Campus) cloud-native architecture provides unified wired/wireless management capabilities. H3C's operations and customers are mostly located in China; however, Gartner expects that the company will strategize an expansion into the EMEA market. Gartner also expects H3C to invest in its SeerAnalyzer and Cloudnet platforms.

### **Strengths**

- **AI and ML Integration:** H3C's short-term roadmap is to apply fully integrated artificial intelligence and machine learning into SeerAnalyzer to better align with the requirements of its customer base.
- **Cloud-Native Network Management:** H3C's Cloudnet platform provides cloud-native solutions for enterprises looking to move their campus applications or unify multiple locations, such as branch offices, into the public cloud.
- **Enterprise Experience:** H3C has strong enterprise expertise and a solid portfolio of switches, access points, management and integrations that can address most usage scenarios.

### **Cautions**

- **Limited Market Exposure:** Asia/Pacific still accounted for more than 60% of H3C's campus networking revenue in 2020. Enterprises considering H3C need to verify product and service availability in their geography.
- **Limited Brand Recognition:** H3C marketing is still limited, which has a negative effect on H3C's voice in the market and ability to drive market direction.
- **Lagging Capability and Functionality:** H3C was late to deliver several automated capabilities, including automatic problem resolution.

### **HPE (Aruba)**

HPE (Aruba) is a Leader in this Magic Quadrant. It delivers a portfolio of LAN and WLAN products, including its Aruba CX line of switches, and 500 and 600 Series access points. HPE's Aruba product lines address most network use cases across both large-enterprise and MSE markets. Aruba ESP (Edge Services Platform) offers integrated network security and infrastructure management capabilities through Aruba Central, which is available both on-premises and via cloud, and is inclusive of the Aruba Central AIOps and analytics technology. The vendor's operations are geographically diverse, and it services clients of all sizes in all major markets. HPE (Aruba) continues to evolve its network automation and AIOps capabilities and will also invest in increasing its enterprise network as a service (NaaS) offerings.

### **Strengths**

- **Comprehensive and Unifying Campus Architecture:** Aruba ESP provides a unified automation and security platform that includes deep AI and ML integration.
- **Integrated Security Features:** The vendor has strong integrated network-security features, which provide policy-based access control and zero-trust capabilities, in addition to network, application and user performance analytics.
- **Wireless Analytics:** HPE (Aruba) has been a leader in its ability to deploy network infrastructure that gathers wireless telemetry data that is used for analytics and resolving customer issues.

### **Cautions**

- **Limited Ability to Reach Some Market Opportunities:** Aruba's sales organization has limited ability to apply Aruba's full network technology portfolio when addressing some complex enterprise opportunities.
- **Incomplete NaaS Offering:** HPE (Aruba)'s consumption-based NaaS offering, GreenLake for Aruba, is still incomplete and confusing to some customers.

- **Differing Cloud and On-Premises Offerings:** Aruba Central and Aruba Central On-Premises have feature differences. Therefore, customers must ensure that the required functionality is available in their preferred deployment model.

## **Huawei**

Huawei is a Visionary in this Magic Quadrant and addresses most MSE and large enterprise network use cases with its CloudEngine S Series switches in addition to its AirEngine wireless APs. Huawei delivers a unified AI-/ML-enabled cloud management platform via its CloudCampus 3.0 solution, which was released in March 2021 and is an upgrade to its iMaster NCE-Campus. While Huawei's operations are globally diverse, the company has virtually no penetration in North America and only limited penetration in some countries such as the United Kingdom and Australia due to ongoing geopolitical issues.

### **Strengths**

- **Innovative Product Strategy:** Huawei's product development and marketing message of "Autonomous Driving Networks for Campuses" is consistent with the overall market's innovation, based on self-healing capabilities striving for advanced automation.
- **Wireless-First Strategy:** Huawei's marketing has added more focus to wireless-first, driven by experience assurance and backed by a comprehensive vision and roadmap based on automated resolution and reporting.
- **Network Automation Capabilities:** iMaster NCE-Campus supports digital twin technology as a management model, allowing mapping physical networks to a digital twin model, which can simulate, test and verify network planning.

### **Cautions**

- **Geopolitical Situation:** The ongoing geopolitical situation currently limits Huawei's exposure in some regions and countries, such as North America, the U.K., and Australia.
- **Management Strategy for MSEs:** On-premises deployments of CloudCampus/iMaster NCE-Campus can be complex and/or costly for MSEs.
- **Nonstandardized IoT Elements:** Huawei's most advanced features in iMaster NCE-Campus require endpoints to use the company's HiLink IoT Protocol. This entails integration with its IoT module or the use of Huawei's open API and SDK, limiting its relevance to organizations standardizing on other endpoint platforms.

## **Juniper**

Juniper is a Leader in this Magic Quadrant. It offers EX Series switches, QFX Series switches and Juniper Mist access points, which address most use cases across large-enterprise and MSE markets. Juniper is focused on integrating the Mist AIOps across its WLAN and wired switching portfolio. Mist AIOps offers management and visibility into the state of the network, application performance, end-user experience metrics and real-time measurement of various targeted SLA compliance metrics. Juniper's operations and clients are globally diverse, and the company continues to invest heavily in integrated AI and ML operations at the core of its campus networking portfolio.

### **Strengths**

- **AI, ML and Automation as a Differentiator:** Juniper invests heavily in the differentiation of its network portfolio through the integration of Juniper Mist Wired Assurance cloud-based AI, ML and automation across its wireless networking, EX and select QFX switch portfolio.
- **Streamlined Network Portfolio:** Juniper doesn't attempt to segment the management, configuration or vertical alignment of its wired and WLAN portfolio into designated MSE or large-enterprise products. This limits product confusion and gives end users more flexibility to apply products that they feel best address their technical requirements.
- **Natural Language AIOps:** Network administrators can troubleshoot common network issues by using natural language queries through Marvis, a virtual network assistant offering that is part of the Juniper Mist Cloud.

### **Cautions**

- **Cloud-Only Management:** The Juniper Mist network management platform is primarily a cloud-based solution. Those looking for a fully on-premises solution are relegated to the Junos Space Network Management Platform, which is functionally lagging versus the Juniper Mist platform.
- **Culture in Transition:** Mist's technology-forward culture continues to be integrated into the larger Juniper culture. Such integrations can be disruptive to both internal business units and to the end user. Both Juniper and its customers must monitor and manage this transition carefully.
- **Mist Technology Integration:** Juniper's pace of developing and releasing updated features at least twice per month can increase the pace of customer updates. Many companies may find it difficult to keep track of stable versions of code, new features, functionality and bugs.

### **TP-Link**

TP-Link is a Niche Player in this Magic Quadrant. Its Omada WLAN and T Series wired network products are focused on MSE and prosumer use cases. While the company's market reach is global, its clients are primarily in education, hospitality and retail sectors. Gartner believes that TP-Link will continue to invest in the ease-of-configuration and operations requirements of MSE customers by continuing to develop its GUI web-based configuration and cloud management capabilities.

### **Strengths**

- **Scalable and Cost-Effective Network Management Solution:** The Omada cloud network management solution is bundled with its access network hardware at no charge, providing unified monitoring for an unlimited number of TP-Link APs, campus switch and security gateway products.
- **Flexible Management Architecture:** In addition to the Omada cloud-based controller, TP-Link has a free, VM-based version of Omada (that manages up to 1,500 network devices) and a hardware WLAN controller that can be remotely configured with a mobile app. Omada cloud can act as an intermediate agent to the on-premises WLAN controller, allowing administrators access from anywhere.
- **Aggressive Pricing:** TP-Link's ASPs for switches and WLAN APs are among the most aggressive in the industry. This aligns with the needs of MSEs or, more broadly, with those of organizations with basic connectivity needs looking for a cost-effective solution.

## Cautions

- **Lack of Strategic Focus on Innovation:** TP-Link provides simple functionality to optimize network performance and to identify network anomalies, but AI-/ML-driven analytics and automation capabilities are lagging compared with other vendors profiled in this research.
- **No Indoor Location Services:** TP-Link has not yet integrated Bluetooth Low Energy (BLE) support in its WLAN APs and has no indoor location services offering.
- **Limited Product Differentiation:** Omada provides some differentiation, but TP-Link's software capabilities are limited, and there is barely any innovation with hardware access layer products today in the market, given its maturity.

## Vendors Added and Dropped

We review and adjust our inclusion criteria for Magic Quadrants as markets change. As a result of these adjustments, the mix of vendors in any Magic Quadrant may change over time. A vendor's appearance in a Magic Quadrant one year and not the next does not necessarily indicate that we have changed our opinion of that vendor. It may be a reflection of a change in the market and, therefore, changed evaluation criteria, or of a change of focus by that vendor.

### Added

No vendors were added to this Magic Quadrant.

### Dropped

The following vendors were dropped:

- **D-Link:** Gartner was unable to validate inclusion criteria for this year's Magic Quadrant.
- **Dell:** Gartner was unable to validate inclusion criteria for this year's Magic Quadrant.
- **Rohde & Schwarz (LANCOM Systems):** Rohde and Schwarz did not meet the revenue criterion for this year's Magic Quadrant.
- **Ruijie Networks:** Ruijie Networks did not meet the revenue criterion for this year's Magic Quadrant.
- **Ubiquiti Networks:** Gartner was unable to validate inclusion criteria for this year's Magic Quadrant.

## Inclusion and Exclusion Criteria

Gartner clients utilize the Magic Quadrant and Critical Capabilities research to identify and then analyze the most relevant network vendors' business strategy and vision, and products in a market. Gartner uses by default an upper limit of 15 vendors to support the identification of the most relevant providers in a market. On some specific occasions, the upper limit may be extended by Methodologies where the intended research value to our clients might otherwise be diminished. The inclusion criteria represent the specific attributes that analysts believe are necessary for inclusion in this research.

To qualify for inclusion, vendors need to:

- Demonstrate relevance to Gartner clients in the enterprise access layer market by manufacturing switching and WLAN hardware to address enterprise access layer networking requirements outlined in the

## Market Definition/Description section.

- Demonstrate relevance to Gartner clients in the enterprise access layer market by providing two or more network service applications as outlined in the Market Definition/Description section.
- Manufacture and deliver enterprise networking products covering at least the network access layer (e.g., core, distribution and access, network layers) for general availability as of 15 April 2021. All components must be publicly available for purchase, exist in inventory and be available for shipping and included on the vendor's publicly published price list. Products shipping after this date will only have an influence on the Completeness of Vision axis.
- Have at least 100 enterprise customers that have deployed products at the network access layer in enterprise production environments as of 30 April 2021.
- Demonstrate production enterprise customer adoption with a minimum of five reference customers having deployed the vendor's products at the enterprise access layer network, inclusive of more than 200 Wi-Fi access points.
- Provide production enterprise reference customers for at least four of the five geographic regions.
- Have no more than 55% of revenue generated in any one country in a single region.

Note that analysts may need to update the inclusion criteria as they progress through the research process. You will be explicitly notified of the change(s) should they need to happen.

## Evaluation Criteria

### Ability to Execute

**Table 1: Ability to Execute Evaluation Criteria**

<b>Evaluation Criteria</b> ↓	<b>Weighting</b> ↓
Product or Service	High
Overall Viability	Medium
Sales Execution/Pricing	Medium
Market Responsiveness/Record	Medium
Marketing Execution	High

## **Evaluation Criteria** ↓

## **Weighting** ↓

Customer Experience	Medium
Operations	Medium

Source: Gartner (November 2021)

## Completeness of Vision

**Table 2: Completeness of Vision Evaluation Criteria**

## **Evaluation Criteria** ↓

## **Weighting** ↓

Market Understanding	High
Marketing Strategy	High
Sales Strategy	Low
Offering (Product) Strategy	High
Business Model	Low
Vertical/Industry Strategy	Medium
Innovation	High
Geographic Strategy	Medium

Source: Gartner (November 2021)

## Quadrant Descriptions

## Leaders

A vendor in the Leaders quadrant will have demonstrated an ability to fulfill a broad variety of customer requirements through the breadth of its access layer product family. Leaders will have the ability to shape the market and provide complete and differentiating access layer applications, as well as global service and support. Leaders should have demonstrated the ability to maintain strong relationships with their channels and customers, and have no obvious gaps in their portfolios.

## Challengers

A vendor in the Challengers quadrant demonstrates sustained execution in the marketplace. It will have clear and long-term viability in the market, but it may not have a complete access layer product portfolio for either products or network applications. Additionally, Challengers may not have shown the ability to shape and transform the market with differentiating functionality or to serve a broad, global customer base.

## Visionaries

A vendor in the Visionaries quadrant demonstrates an ability to increase features in its offering to provide a unique and differentiated approach to the market. A Visionary will have innovated in one or more of the key areas of access layer technologies within the enterprise (for example, security, management or operational efficiency). The ability to apply differentiating functionality across the entire access layer will affect its position.

## Niche Players

A vendor in the Niche Players quadrant demonstrates a near-complete product offering. However, it may not be able to control development or provide differentiating functionality because it relies on a strategic partner to offer part of the solution, whether it is a hardware component or a network application. Niche Players may also lack strong go-to-market capabilities that would enhance their regional or global reach or service capabilities in their product offerings. Niche Players often have deep vertical knowledge and will be an appropriate choice for users in the specific vertical markets where they have specialized offerings and knowledge.

## Context

Gartner's perspective of the enterprise wired and wireless Ethernet infrastructure marketplace emphasizes the continued and accelerating shift from merely providing foundational network connectivity to technologies that also include application performance, end-user experience and the overall support of business requirements across the entire network fabric. This market view is based on the preceding 12-month time period ending April 2021.

Gartner's research indicates that investments by companies in enterprise Ethernet networking technology caused the market to grow by 17.9% year over year for the period ending 2Q21 (see [Market Share: Enterprise Network Equipment by Market Segment, Worldwide, 2Q21](#)). Additionally, end-user investments in enterprise wireless LAN technologies caused the market to grow at 21.6% during the same period. Gartner forecasts that global campus network revenue will grow at approximately 3% compound annual growth rate (CAGR) through 2025, while wireless LAN access points will grow at approximately 7% CAGR. The biggest pressure on enterprise networking growth continues to be the global COVID-19 pandemic, supply chain disruptions due to microchip shortages and labor shortages. Additionally, emergent network technologies such as Wi-Fi 6E and policy-based networking, which is inclusive of dynamic segmentation technologies, will further delay planned purchases and network projects.

Gartner has observed significant shifts in spending from campus networking projects to projects necessary to support the networking requirements of remote workers. To this end, it is expected that up to 80% of all employees will maintain hybrid work capabilities after the COVID-19 pandemic (see [Forecast Analysis: Remote and Hybrid Workers, Worldwide](#)). This trend will require enterprises to deploy a leaner, yet technically capable, campus network to support traditional and remote paradigms. They will need to deliver secure and consistent access to bandwidth-intensive applications such as video conferencing across on-campus, remote and cloud-based network infrastructures.

The reliance of diverse suites of technologies to support digital business has placed significant emphasis on understanding application performance, user experience and security postures across the entire network fabric. To this end, a comprehensive suite of cloud-based and on-premises management tools is now a compulsory part of enterprise network vendor portfolios. These tools give the enterprise networking team deep visibility up to Layer 7, which is where applications, business-relevant data and end users exist. These tools enable a unified view of relevant data derived from various points of the interconnected infrastructure, which supports reduced time for troubleshooting. To facilitate greater operational agility, network infrastructure availability and reduced costs, it is common for vendors to integrate AIOps to further reduce the time to identify and resolve issues. These intelligent features also enable quicker and shorter device, end-user and application provisioning across the network. Integration of these tools becomes critical as the ever-expanding footprint of the enterprise network requires supporting access to data from anywhere, on any device, at any time.

Disruptive technologies that focus on application performance and end-user experience drive the majority of innovation in the overall enterprise networking market. But core connectivity technologies are also driving network refresh projects. The most visible of the connection-oriented technologies is Wi-Fi 6 (802.11ax), which is soon to be accompanied by Wi-Fi 6E, which operates in the 6GHz spectrum. However, the majority of contemporary end-user devices such as laptops, tablets and smartphones are still limited to 802.11ac, with 802.11ax end-user devices only becoming widely available within the last 12 months.

Therefore, while enterprise end users may deploy Wi-Fi 6 or eventually Wi-Fi 6E access points as a future-proofing strategy, the technology will have minimal impact across the enterprise for at least 36 months. As a result, it is Gartner's position that enterprises that have recently deployed 802.11ac access points have little reason to upgrade to Wi-Fi 6E at this time. This position is further reinforced for enterprises that no longer need to support the increased client density and bandwidth capabilities of Wi-Fi 6E in their branches and campus locations due to increased numbers of hybrid workers.

## What Has Changed?

### Microchip Shortages

Microchip shortages are having an uneven but increasing impact on network hardware lead times across all enterprise network market segments. Recent Gartner inquiries on networking hardware purchases have indicated that lead times vary widely from 30 days to more than 180 days for orders placed in October 2021. I&O leaders in charge of networking must factor in the costly effect of extended delivery times on network projects. Organizations are mitigating these long lead times by anticipating disruptions and ordering critical network equipment sooner than required or temporarily pushing noncritical projects out over the short term and midterm.

### Labor Shortages

Global labor shortages (see [Supply Chain Brief: U.S. Review of Supply Chains Magnifies Massive Talent Shortage](#)) are also exacerbating supply chain disruptions due to the microchip shortages while also reducing organizational capabilities for supporting existing networks or deploying new network equipment. The knowledge worker segment has been among the most volatile, while also presenting one of the highest levels of open positions. I&O leaders in charge of networks can mitigate this trend by deploying enterprise networks that are simpler to deploy, maintain and manage. Enterprises are adopting on-premises or cloud-based management platforms to reduce reliance on complex configurations and manual command line interfaces, thus supporting higher levels of enterprise networking capabilities with less reliance on specialized or expert-level certifications. Similarly, AI and ML tools reduce the number of low-level trouble tickets, while automation tools reduce the No. 1 cause of network outages — configuration errors — while also reducing the time to deploy new network equipment.

## COVID-19 Pandemic

The global COVID-19 delta variant has either slowed or reversed enterprise plans to repatriate workforces back to the traditional office environment. To support workforce disaggregation, network vendors have solutions that directly support enterprise-grade connectivity for remote users. Such solutions not only extend the enterprise network fabric to any location with an internet connection, but also support the ability to deliver remote security and end-user application experience management.

Organizations recognize that the pandemic presents only a temporary operational state, so they are scaling their enterprise network projects appropriately to support the eventual return to the office of up to two-thirds of the workforce. As such, WLAN and wired LAN products are still required to support the permanent reliance on high-bandwidth, real-time applications such as HD videoconferencing and off-premises cloud-based SaaS applications. Additionally, enterprises are refreshing older WLANs (e.g., 802.11n) to Wi-Fi 6 access points as a future-proofing measure. However, enterprises that have recently deployed 802.11ac access points have little reason to immediately upgrade to Wi-Fi 6.

This point is reinforced with a projected 48% of the workforce continuing (see [Remote Work After COVID-19](#)) to work remotely, thus reducing the total density of wireless clients that must be supported in traditional offices. Furthermore, operational uncertainty driven by a prolonged COVID-19 pandemic is forcing some enterprises to postpone large, centralized capital network projects in lieu of workforce fluidity. This enables more flexibility to invest in technologies that can readily address unforeseen mid- and long-term organizational requirements.

## Focus on Business Outcomes

The primary business outcome of enterprise networking is no longer simply delivering connectivity. Business outcomes are now measured in the enterprise network's ability to successfully and securely support applications, diverse end-user experiences, and quickly changing operational requirements. The traditional delivery of these services has been focused on carpeted and branch offices, but it is now necessary to provide these services to remote locations of various sizes and functionality, as well as across diverse methods of WAN connectivity.

## Market Overview

The Enterprise Wired and Wireless LAN Infrastructure market is now composed of vendors not only delivering wired and wireless Ethernet networking hardware, but also tightly integrating network management software that resides both on-premises or in the cloud. This combination of network hardware

and powerful software is integral for addressing organizational mission agility, pervasive security and the increased levels of performance required by end users across all categories of connected applications and devices.

These integrated software tools speed time to completing enterprise network deployments, reduce time to identify and resolve network and application issues, and deliver pervasive automation tools which reduce network administrator workloads.

Additionally, core integration of AI and ML are integral to correlating the flood of generated data, thereby presenting key data points necessary to optimize the network in support of digital business requirements. This technology is also becoming a valuable source of business relevant data that is useful to I&O and overall business leadership.

The enterprise networking market includes vendors with the following capabilities:

- The vendor develops and manufactures its own enterprise-grade wired and wireless infrastructure components, network applications, and services.
- The vendor develops and manufactures its own comprehensive portfolio of wired and/or wireless components, but also uses a strategic partner to fill gaps in its portfolio, supporting its ability to deliver an end-to-end, enterprise-grade network solution.

The market defined above is inclusive of vendors providing and supporting enterprise wired and wireless LAN infrastructure globally in at least four of the five main geographies identified by Gartner:

- Asia/Pacific
- Latin America
- Middle East and North Africa
- Europe
- North America

## How Buyers Shape Their Buying Decisions

### Incumbency

Organizations tend to stay with their current enterprise network vendor if it offers a technology portfolio that is “good enough” to fit its needs and functions within reasonable expectations. Since the network market is relatively conservative and risk-averse, incumbent relationships often survive even when technology alignment is suboptimal due to high vendor switching costs.

### Traditional Network Technology Capabilities

Enterprise networking has been shaped by more than 30 years of primarily delivering connectivity and resiliency at Layer 2 and Layer 3 of the OSI network model. As a result, buyers expect robust traditional Layer 2 switching features, appropriate power over Ethernet to support VoIP and AP hardware, quality of service (QoS), and sufficient uplink speeds to support various traffic requirements. At the wired access layer of the network, customers expect the necessary Wi-Fi power, performance and throughput to support the

necessary client connection densities and bandwidth requirements. Finally, the network core and distribution layers must deliver the redundancy and high-speed routing and switching capacity to support dramatically increased north-south traffic, much of which is destined for the cloud and other off-network destinations.

## Perpetual and Subscription Licensing

Network hardware continues to be relatively commoditized, and true differentiation across vendors is reliant on the capabilities of network software features and functionality. However, as network vendors adopt the stance of software vendors, there are diminishing options for traditional perpetual licensing. Vendors realize new revenue streams by shifting to subscription-based licensing, but the shift is often confusing and continues to be a source of frustration for I&O leaders. Subscription licensing may make sense for some organizations. However, a preponderance of Gartner clients continues to express a preference for having a choice of licensing options instead of being forced into licensing that is often inclusive of features that are not required.

## AI, ML, Automation and Management Suites

Enterprise network vendors now offer tools utilizing various degrees of artificial intelligence, machine learning and automation to reduce network administration and operational workloads. These tools are unified for management and security at all layers of the network. However, adoption of these essential toolsets is slow. Initially, there were concerns about the maturity of the tools. As tools mature and there is less concern about the capabilities to operate in the production network environment, vendors still struggle to clearly articulate the value proposition of these tools and solutions to the enterprise.

Currently, there are varying degrees of self-driving capabilities enabled by machine learning. Artificial intelligence will drive more business-relevant network outcomes as routine issues are quickly and automatically resolved. Additionally, configurations are more tightly aligned to the original strategic or tactical business intent. Therefore, vendors that successfully deliver products with meaningful automation of network functions enable network teams to meet SLAs for increased overall application performance and user satisfaction. Going forward, organizations must invest in solutions that will increase the capabilities of the enterprise network to support all levels of the business. However, enterprises must thoroughly test and verify that a vendor's stated capabilities meet or exceed AI, ML and automation hype.

## How Providers Package, Market and Deliver

Buyers generally source their wired/wireless LAN infrastructure through an authorized vendor channel partner, with relatively few purchases occurring directly from the network vendor. Hardware expenditures are usually a one-time cost, which is inclusive of a firmware end-user licensing agreement. These initial costs include updates to resolve certain firmware bugs that adversely affect the use of the hardware, or security vulnerabilities that would expose the end user to significant damage if left unpatched. Otherwise, future operating system updates, feature upgrades or security patches are a function of a firmware maintenance contract that is purchased separately, either at the time of purchase or at a future date. Vendors charge for hardware and software licenses either as a perpetual license or as a subscription license but, as mentioned previously, the market is trending away from perpetual licensing.

Network management platforms have become ubiquitous, so access usually requires separate management licensing with various functionality assigned to higher levels. However, some vendors offer enterprise networking solutions that are 100% reliant on the management platform for all functionalities. In such cases, the network management platform is included and various security and/or feature license levels are offered.

# Evidence

This research was informed by more than 1,500 client interactions in enterprise wired and wireless networking technologies 2020-2021, data from vendor briefings, vendor surveys, vendor demos, Peer Insights, practitioner interviews and previously published Gartner research.

## Evaluation Criteria Definitions

### Ability to Execute

**Product/Service:** Core goods and services offered by the vendor for the defined market. This includes current product/service capabilities, quality, feature sets, skills and so on, whether offered natively or through OEM agreements/partnerships as defined in the market definition and detailed in the subcriteria.

**Overall Viability:** Viability includes an assessment of the overall organization's financial health, the financial and practical success of the business unit, and the likelihood that the individual business unit will continue investing in the product, will continue offering the product and will advance the state of the art within the organization's portfolio of products.

**Sales Execution/Pricing:** The vendor's capabilities in all presales activities and the structure that supports them. This includes deal management, pricing and negotiation, presales support, and the overall effectiveness of the sales channel.

**Market Responsiveness/Record:** Ability to respond, change direction, be flexible and achieve competitive success as opportunities develop, competitors act, customer needs evolve and market dynamics change. This criterion also considers the vendor's history of responsiveness.

**Marketing Execution:** The clarity, quality, creativity and efficacy of programs designed to deliver the organization's message to influence the market, promote the brand and business, increase awareness of the products, and establish a positive identification with the product/brand and organization in the minds of buyers. This "mind share" can be driven by a combination of publicity, promotional initiatives, thought leadership, word of mouth and sales activities.

**Customer Experience:** Relationships, products and services/programs that enable clients to be successful with the products evaluated. Specifically, this includes the ways customers receive technical support or account support. This can also include ancillary tools, customer support programs (and the quality thereof), availability of user groups, service-level agreements and so on.

**Operations:** The ability of the organization to meet its goals and commitments. Factors include the quality of the organizational structure, including skills, experiences, programs, systems and other vehicles that enable the organization to operate effectively and efficiently on an ongoing basis.

### Completeness of Vision

**Market Understanding:** Ability of the vendor to understand buyers' wants and needs and to translate those into products and services. Vendors that show the highest degree of vision listen to and understand buyers' wants and needs, and can shape or enhance those with their added vision.

**Marketing Strategy:** A clear, differentiated set of messages consistently communicated throughout the organization and externalized through the website, advertising, customer programs and positioning statements.

**Sales Strategy:** The strategy for selling products that uses the appropriate network of direct and indirect sales, marketing, service, and communication affiliates that extend the scope and depth of market reach, skills, expertise, technologies, services and the customer base.

**Offering (Product) Strategy:** The vendor's approach to product development and delivery that emphasizes differentiation, functionality, methodology and feature sets as they map to current and future requirements.

**Business Model:** The soundness and logic of the vendor's underlying business proposition.

**Vertical/Industry Strategy:** The vendor's strategy to direct resources, skills and offerings to meet the specific needs of individual market segments, including vertical markets.

**Innovation:** Direct, related, complementary and synergistic layouts of resources, expertise or capital for investment, consolidation, defensive or pre-emptive purposes.

**Stratégie géographique :** La stratégie du fournisseur pour orienter les ressources, les compétences et les offres afin de répondre aux besoins spécifiques des zones géographiques en dehors de la « maison » ou de la géographie d'origine, soit directement, soit par l'intermédiaire de partenaires, de canaux et de filiales, selon les besoins de cette zone géographique et de ce marché.

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