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China Mobile International Limited
CMI AAN Product Introduction

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Application Acceleration Network

AAN

Product Intro: AAN integrates Routing, Protocol, Link and Data optimal technologies which can offer the real-time optimization and integrated acceleration for customer’ s applications and services.

Targeting Customers: Enterprise customers with cross-border access needs.

Product Advantages: AAN specializes in speeding up dynamic content, provides speedup for 4-layer or above protocol (Application Protocol Independence) , and improve visit experience significantly, which could also satisfy the speed and stability requirements for Internet access.

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AAN Global Backbone Network Resources

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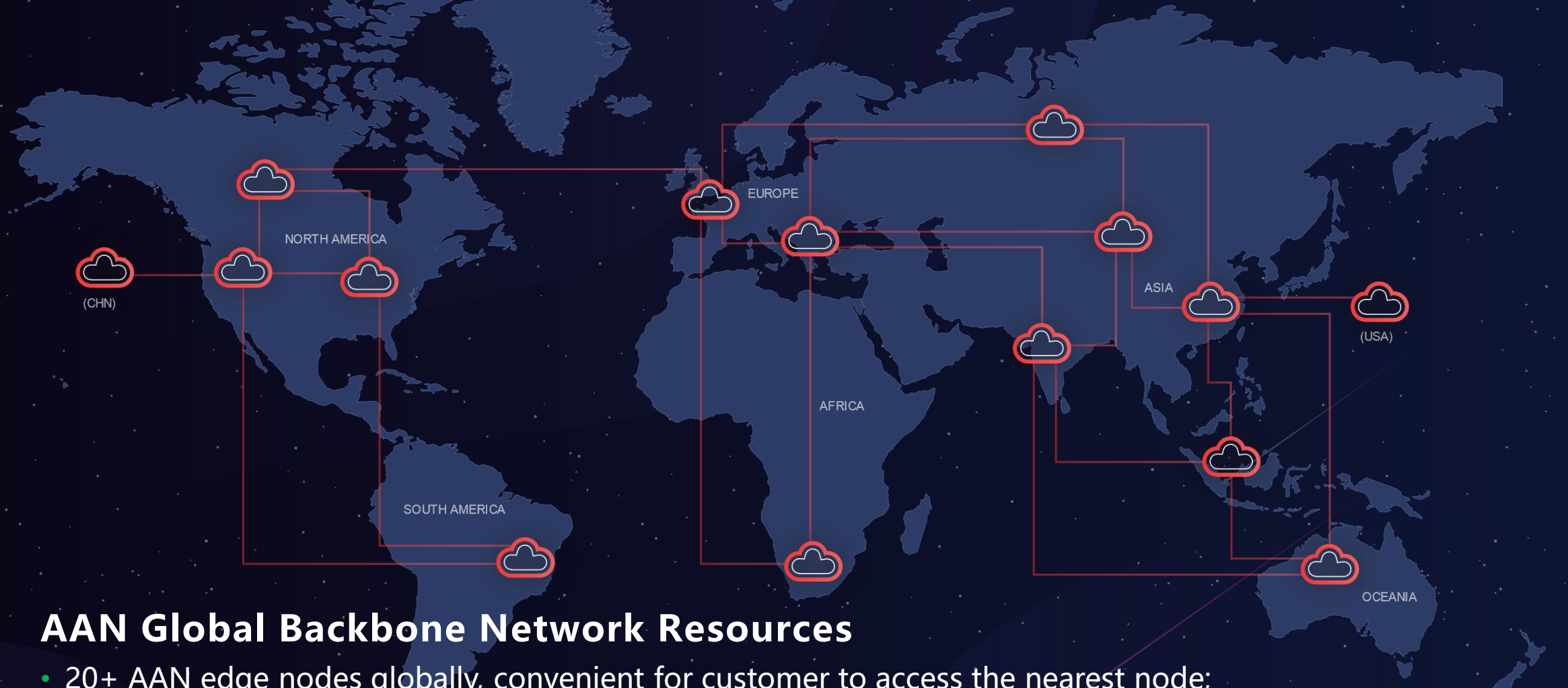

AAN Global Backbone Network Resources

- 20+ AAN edge nodes globally, convenient for customer to access the nearest node;
- Edge nodes are connected by CMI self-owned dedicated circuits with sufficient bandwidth and reliable redundancy.

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AAN – Product Advantages

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Path Optimization

- Utilize CMI global backbone, cloud connect, etc. to provide optimized path;
- Provide path redundancy.

Routing Optimization

- Real-time monitoring of link quality at edge nodes;
- Detecting latency, packet loss, bandwidth;
- Fully controlled routing, independent of operator’ s routing policy;
- Automatically choosing the optimized path.

Protocol Optimization

- Optimized transmission protocol between edge nodes;
- Make the full use of the bandwidth to increase transmission efficiency.

Data Compression

- Compress the transmission data to increase efficiency;
- Use MD5 to inspect large files to prevent repetitive transmission.

Characteristic Features

- Specialized support solution;
- Back to source based on IP and domain name.

Reliable

- Source Redundancy (various source choosing strategies);
- Zero-delay Switchover;
- Node failure Switchover;
- Edge Nodes group coverage.

Product Features

- Integrate Routing, Protocol and Link optimal technologies to provide the acceleration service that is above the 4th layer
- Interconnected edge nodes through the CMI backbone network
- Fast deployment and broad coverage

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AAN – Product Principle

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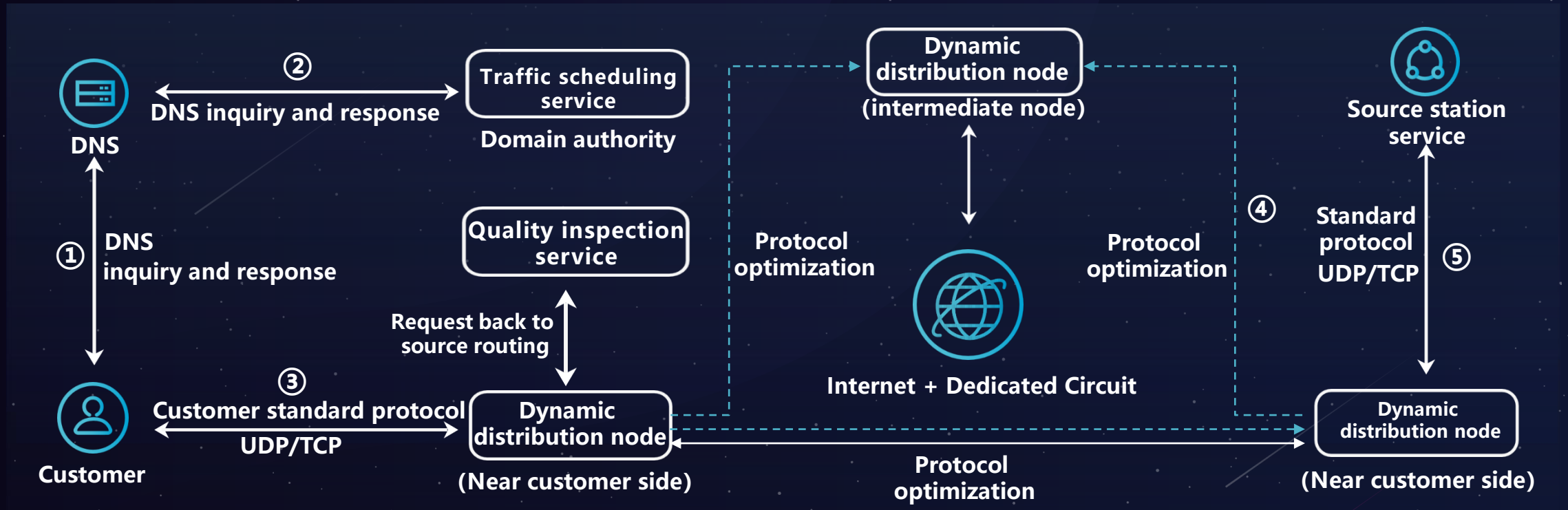

① When the user accesses the accelerated website, the local DNS sends the DNS request to the source site to quthorize DNS for domain name resolution. Then the authorized DNS returns the CNAME domain name;

② Local DNS initiates the CNAME resolution request and send it to global scheduling system. The system will calculate the optimized edge node IP address for customer’ s service;

③ Customer’ s access request will be sent to the nearest acceleration PoP;

④ System forwards user requests to the nearest acceleration PoP (near the source station) by the optimized paths and protocols;

⑤ Customer requests reach the source station by standard protocol.

AAN Scenario 1: Overseas access China

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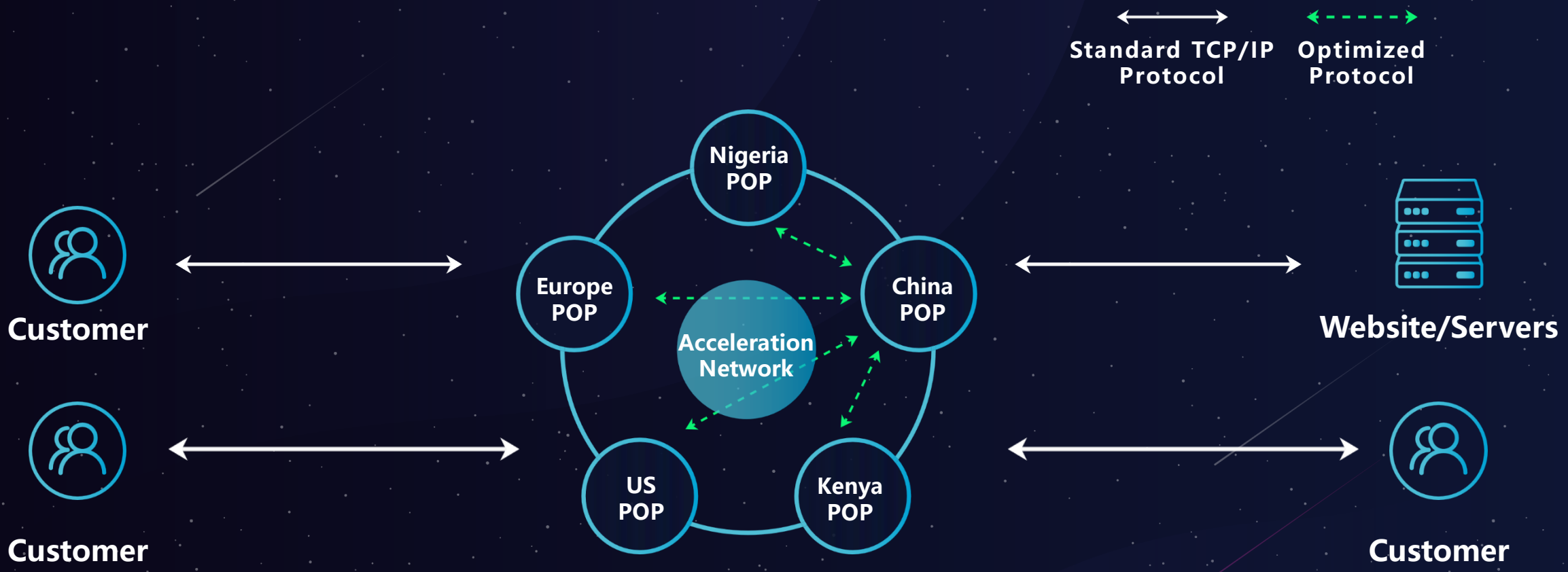

- Customers are distributed overseas, accessing domestic source server and OA, finance and other related applications through AAN.
- No changes at customer side, the nearest access node is automatically assigned.

AAN Scenario 2: China access Overseas

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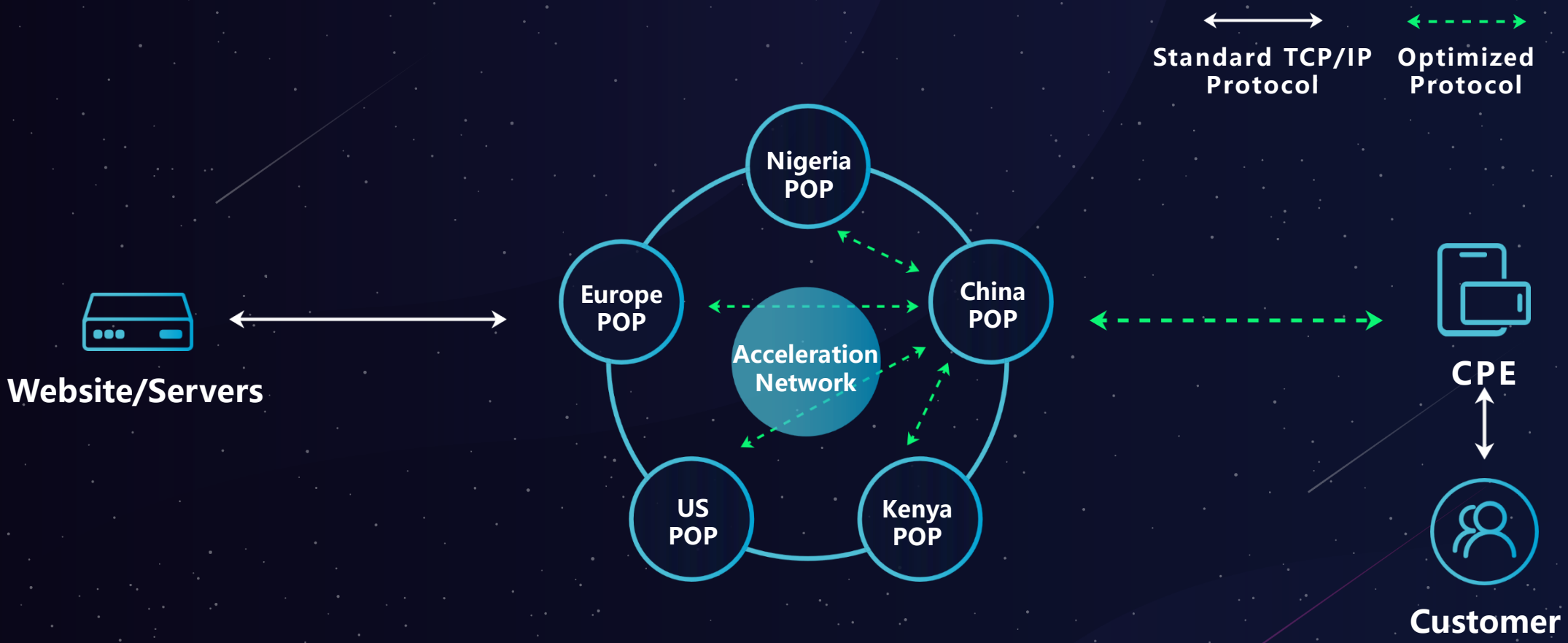

- Deploy configuration-free CPE at customer side and connect specific accelerated traffic to the AAN through CPE.
- Accelerate specific applications through cooperation with Cloud Service Provider or SaaS service providers.

AAN - Competitive Product & Market Analysis

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Features Comparison

Compared to Internet

AAN offers **20%-800%**

speed-up improvement

Compared to Internet

AAN offers **15%-35%**

packet loss tolerance

Fast delivery

Deliver in **1day**

Suitable Industries

- Manufacture
- IT
- Finance
- Gaming
- Online Education
- ERP

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