SANDVINE

iQ42300 Qualified Software Appliance

Future-ready network intelligence platform powered by Sandvine Linux, Sandvine Installation Engine and high-performance Commercial of the Shelf (COTS) rack servers from Dell Technologies™

KEY CAPABILITIES

Sandvine's iQ42300 Qualified Software Appliances enables a full suite of network intelligence and policy enforcement capabilities, including:

- Ideal for core 10GE and 100GE Deployments in a medium Footprint
- Deployment & Management with Sandvine Installation Engine SIE
- Up to 320Gbps Inspection Capacity[1]
- 8 x 100GE Ports for Traffic and 8 x 10GbE ports
- Up to 10 Million Subscribers[1]
- Up to 100 Million Connections[1]
- Higher performance, improved memory bandwidth

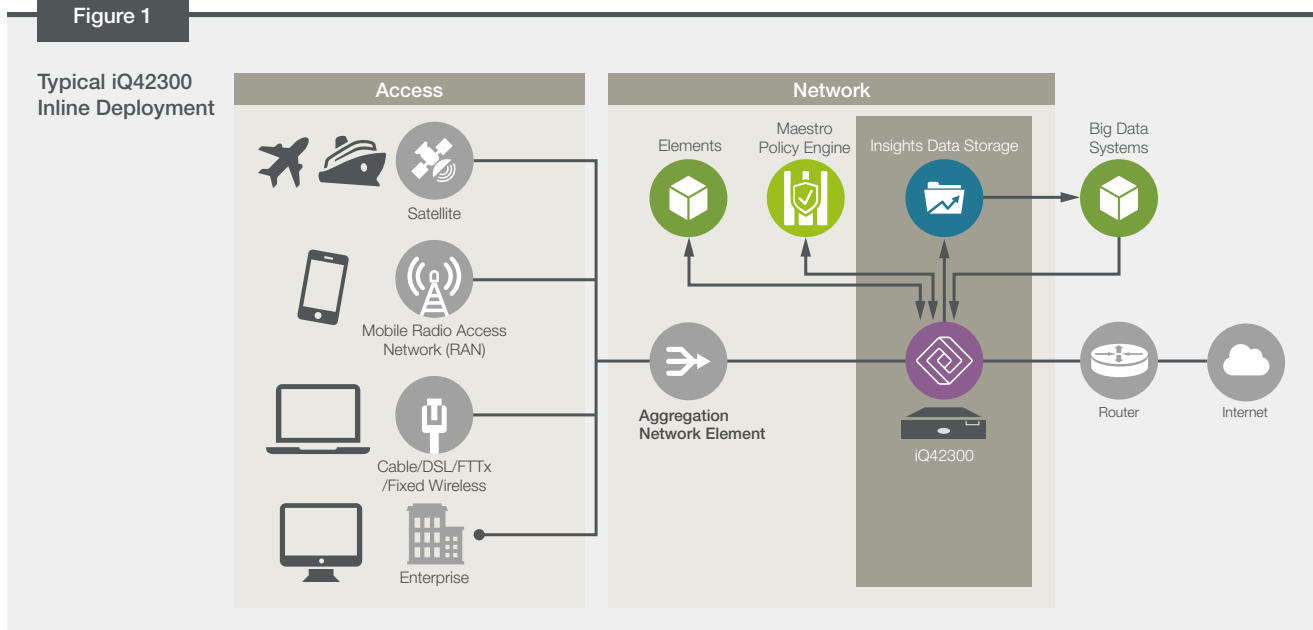[1] Depending on configuration and network traffic profile

The iQ42300 Qualified Software Appliance is a high-performance, scalable, commercial-off-the-shelf (COTS) based appliance designed for service providers and larger enterprises seeking cost-effective network deployments. Compatible with Sandvine's Application Quality of Experience (App QoE) and network intelligence suite, the iQ42300 Qualified Software Appliance enables organizations to analyze, optimize, and monetize their network traffic.

The iQ42300 Qualified Software Appliance is based on the 2RU Dell PowerEdge R760 reference rack server model powered by Sandvine Linux and the Sandvine Installation Engine, offering up to 320Gbps of throughput. It features 8 x 100GE ports for traffic and 8 x 10GbE ports, supporting up to 10 million subscribers and 100 million connections. The iQ42300 Qualified Software Appliance can be configured to support a broad range of use cases enabled by Sandvine across multiple solution areas. Designed to work for smaller networks or in conjunction with the larger scale iQ42300 Qualified Software Appliance can be deployed regionally or for smaller bandwidth requirements to optimize total cost of ownership (TCO).

WHAT IS A SANDVINE QUALIFIED SOFTWARE APPLIANCE?

Sandvine's Qualified Software Appliances are prepackaged Software OS plus Application software qualified, and performance tested (dimensioned) on specific Dell PowerEdge rack server models from Dell Technologies™. This new appliance series will allow customers to

Figure 1

Typical iQ42300 Inline Deployment

Access — Satellite, Mobile Radio Access Network (RAN), Cable/DSL/FTTx /Fixed Wireless, Enterprise

Network — Elements, Maestro Policy Engine, Insights Data Storage, Big Data Systems, Aggregation Network Element, iQ42300, Router, Internet

transition from multi-vendor procurement to a centralized, single-source supplier, migrating server technology procurement from international to regional supply chains to allow improved lead times, regional pricing, and local sales and support presence.

SAVE ON TOTAL COST OF OWNERSHIP

Every dollar counts. That's why repurposing, refitting or re-using server technology is important for most organizations who have moved away from proprietary technology. The iQ42300 Qualified Software Appliances provides this flexibility and in turn increases the ROI of the purchased server technology.

Deploy with flexibility, utilizing fully customizable Dell portfolio parts, accessories, and refitting possibilities. Customers receive comprehensive server technology-focused support services from Dell, including hardware support, protection, and advisory services. Leveraging the latest investments, Sandvine benefits from higher core density per server, faster server interconnect speeds (PCIe backplane) for improved signal reliability and performance, and faster memory speeds (DDR5) for enhanced data plane traffic flow processing. These technical enhancements deliver optimal TCO for our customers.

iQ42300 SPECIFICATION HIGHLIIGHTS

- Networking: 10GE, 25GE, 100GE connectivity
- Throughput: Up to 320Gbps[1]
- Connections: Up to 100,000,000[1]
- Connections/sec: Up to 5,000,000[1]
- Subscribers: Up to 10,000,000[1]
- Redundancy: External Bypass, FlowSync/QueueSync

[1]Depending on configuration and network traffic profile

Rack Server	Dell PowerEdge R760, 2 rack unit (RU), 19" rack-mounted
Processor family	Intel® 4th generation Xeon® Scalable Processors
Processor models	Dual Intel Xeon Gold 6438N 2G, 32C/64T Processors
Memory	768GB RAM (12 x 64GB RDIMM)
Storage	960GB (2 x 960GB SSD RAID1)
Network Interface Adapters	10/25/100GE from various vendors according to Product Guide
Management Interfaces	2 x 1000BASE-T
Max # of Traffic Channels	4 x 100GE (QSFP28)
# of Interfaces	8 x 100GE QSFP28, 8 x 25/10GE SFP+/SFP28
Physical Interfaces:	QSFP28 100G-SR4, QSFP28 100G-LR4, SFP28 25GE SR, SFP28 25GE LR, SFP+ 10GE SR, SFP+ 10GE LR
Sandvine Software Application	ActiveLogic LTS 24.40 or higher
Sandvine OS	Sandvine Linux
Software Installation Process	Sandvine Installation Engine

Sandvine provides detailed specification sheets to assist in ordering correct Dell server hardware and other third-party components. Regulatory and environmental information for the servers can be obtained from the Dell website. **All content in this datasheet is subject to updates at Sandvine's discretion. Please ensure you are referring to the most current version for the latest information.**

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