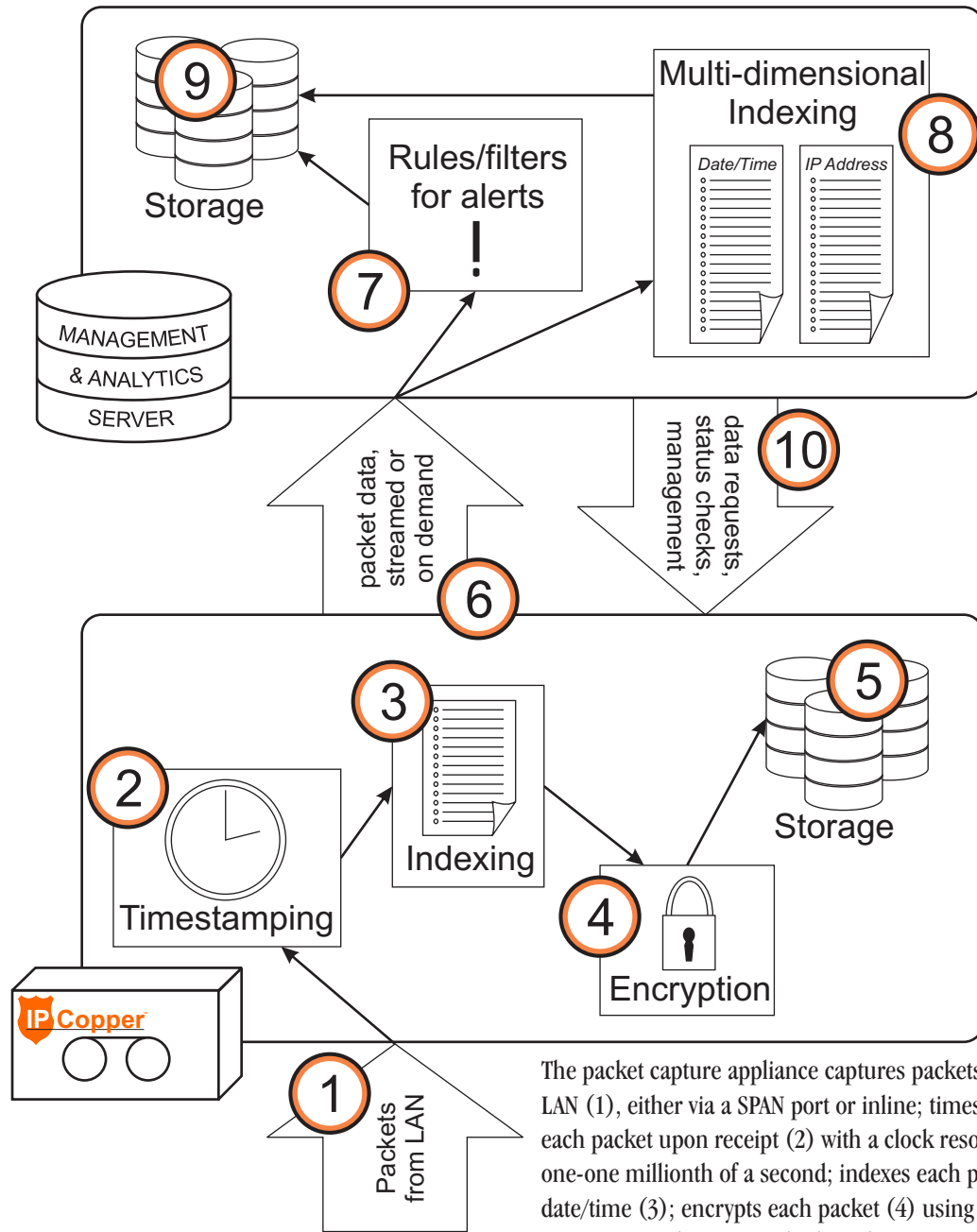




# IPCopper Packet Capture Appliances & Management/Analytics Servers

*Data Flow, Processing, Storage and Management*



The packet capture appliance captures packets from the LAN (1), either via a SPAN port or inline; timestamps each packet upon receipt (2) with a clock resolution of one-one millionth of a second; indexes each packet by date/time (3); encrypts each packet (4) using dual encryption with a 20,000-bit key; then stores the

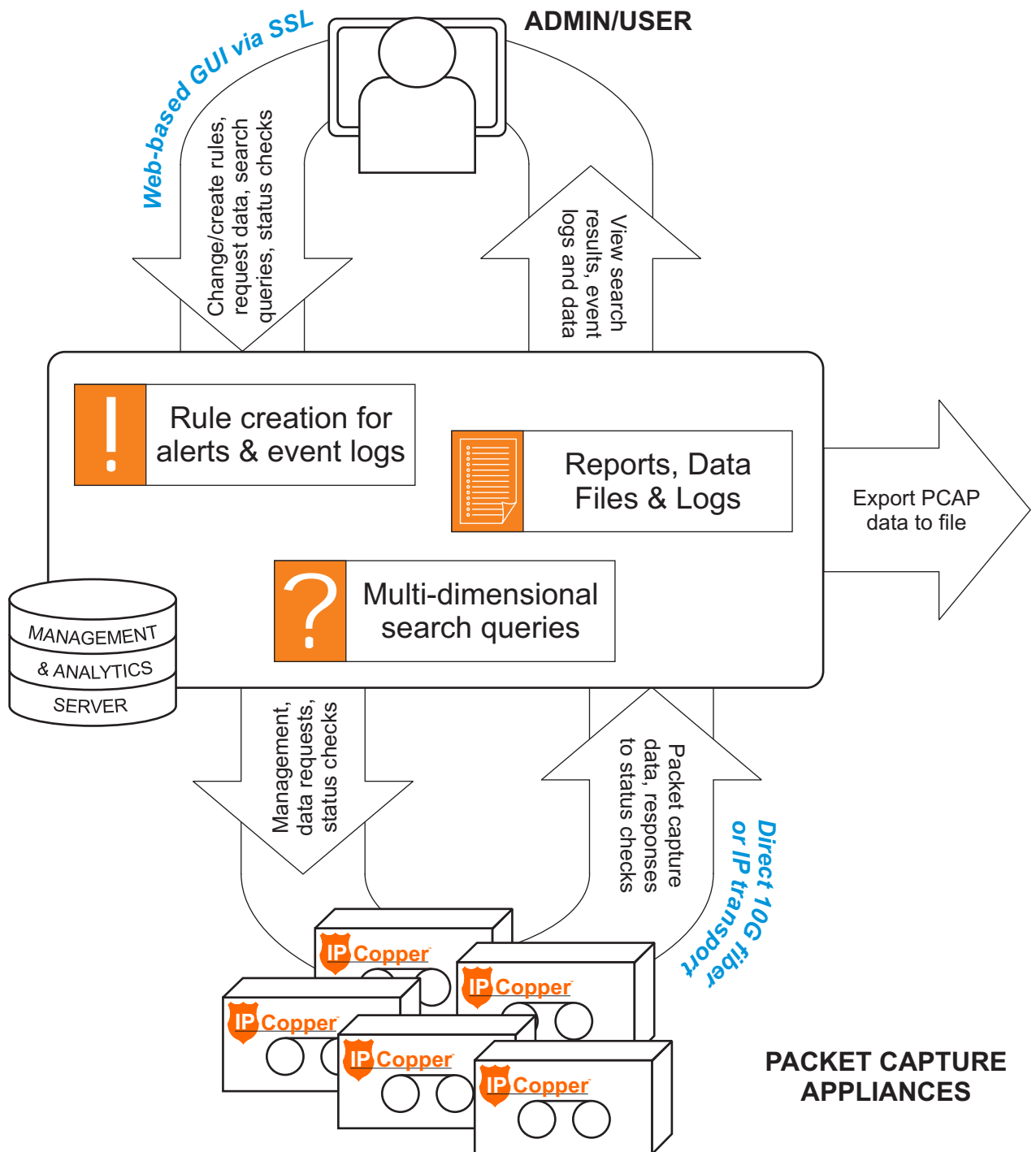
captured packets on its internal storage (5). IPCopper packet capture appliances' internal storage ranges from 1TB, 4TB, 24TB and on up to 480+ TB. Depending on configuration, the packet capture appliance may stream or deliver data on demand (6) to the management and analytics server via IP transport (or for some models, via a direct non-routable 10G fiber connection). As the server receives data it runs it through rules for generating alerts (7), indexes the packets multi-dimensionally (8) and stores them (9). Multi-dimensional indexing speeds up response speed and enables multi-faceted data queries. IPCopper's management and analytics server is capable of putting packet capture data through tens of thousands of rules for report and alert generation, as well as search queries. Alerts may be added to a list of alerts accessible to users or may also appear automatically on users' interfaces. Users can request data, conduct status checks and send management commands (10) to individual packet capture appliances through the server's GUI interface.



# Copper™

## IPCopper Packet Capture Appliances & Management/Analytics Servers

*Tools, Multi-Dimensional Analytics & Management*



IPCopper's management and analytics servers are a central point for accessing and managing multiple IPCopper packet capture appliances in the field, in addition to providing high-performance analytics functions, including an IDS engine based on IPCopper's third-generation server platform. Through the server's online GUI interface, users can conduct multi-dimensional search queries on both real time and past data, as well as add and change rules for generating alerts. Possible parameters for rules and search queries include signature, IP address, MAC address, protocol, keyword, HTTP header field and TCP/IP session. Users can drill down through the data to examine individual packets and sessions.



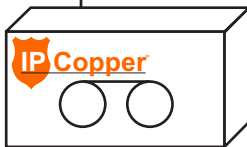
### Server User Management

- user access privileges
- user-specific alerts
- track user actions (e.g., settings changes)



### Packet Capture Appliance Event Logs

- settings changes
- inquiries and commands from management utility
- port connectivity up/down
- GPS time synchronization



Integrating IPCopper packet capture appliances with separate management and analytics servers provides a big advantage in terms of redundancy. The packet capture appliance securely collects and stores the raw network data on its own internal storage, while the server replicates the captured data, either partially or completely, depending on its available native storage. Separating the data capture and the analytics functions into two separate machines also allows for higher reliability over all.

In addition to integrating with the management and analytics servers, IPCopper packet capture appliances can also perform as standalone devices with data exported into a PCAP file via the appliance's individual management utility.

### CONNECTIVITY

IPCopper packet capture appliances are available with both copper and fiber connectivity, serving both 1G and 10G network speed needs. For a full list of available packet capture appliances, please visit our website, [www.ipcopper.com](http://www.ipcopper.com). IPCopper's management and analytics servers feature both copper and fiber connectivity, enabling users to connect to their packet capture appliances via both 10G direct fiber and IP transport.

### STORAGE

IPCopper packet capture appliances feature native storage ranging from 1TB, 4TB, 24TB to 480+TB. IPCopper's management and analytics servers' internal storage may be augmented with the addition of 48TB external storage modules, making it possible to increase the servers' native storage up to 480+TB. If you have specialized storage or connectivity needs, please contact IPCopper's sales team at [sales@ipcopper.com](mailto:sales@ipcopper.com) to discuss your options.

### CONTACT US:

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