

Will Application Networking Improve Productivity?

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Application networks are rolling out

- Moving processing intelligence into network components
 - Look at payload
 - Make decisions on priority, security, destination
 - Partly because networks are changing
 - No more “Packets to ports”
 - Now “Messages to Services”
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The motivations

- Scalability
 - Reliability
 - Efficiency
 - Security
 - Performance
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Your IT infrastructure: The right platform for the job

| | Strengths | Weaknesses |
|------------|--|---|
| Processors | <ul style="list-style-type: none">FlexibleGeneral-purposeMoore's LawUbiquityInteraction-focused | <ul style="list-style-type: none">Not turnkeyOS/App divisionInefficientExploitable |
| Networks | <ul style="list-style-type: none">ResiliencyPurpose-builtHarder to hackInteroperableTransmit-focused | <ul style="list-style-type: none">Can't repurposeLimited flexibilityDon't see app context |

Application networks are Application Fluent

**Application
agnostic**

“Bob Smith from Acme corporation’s New York office had a search page that took too long after he signed into the main application”

**Application
aware**

“Web request for `page453.jsp?action='search'&sortBy='zip'` took 7.4 seconds”

**Application
agnostic**

“74 TCP packets from 192.3.4.5:10232 to 199.84.5.1:8080 took an average of 463 ms round trip”

It's really about business productivity

- Ultimate measure of success
 - Users' ability to accomplish tasks quickly and successfully

Lots of explanations

- The bottom line
 - When the network is application-fluent, good things can happen

Many different applications

- Application front-ends
- WAN optimization
- Network security