

CRYPTO PERFORMANCE & HOTSPOT ANALYZER TOOL



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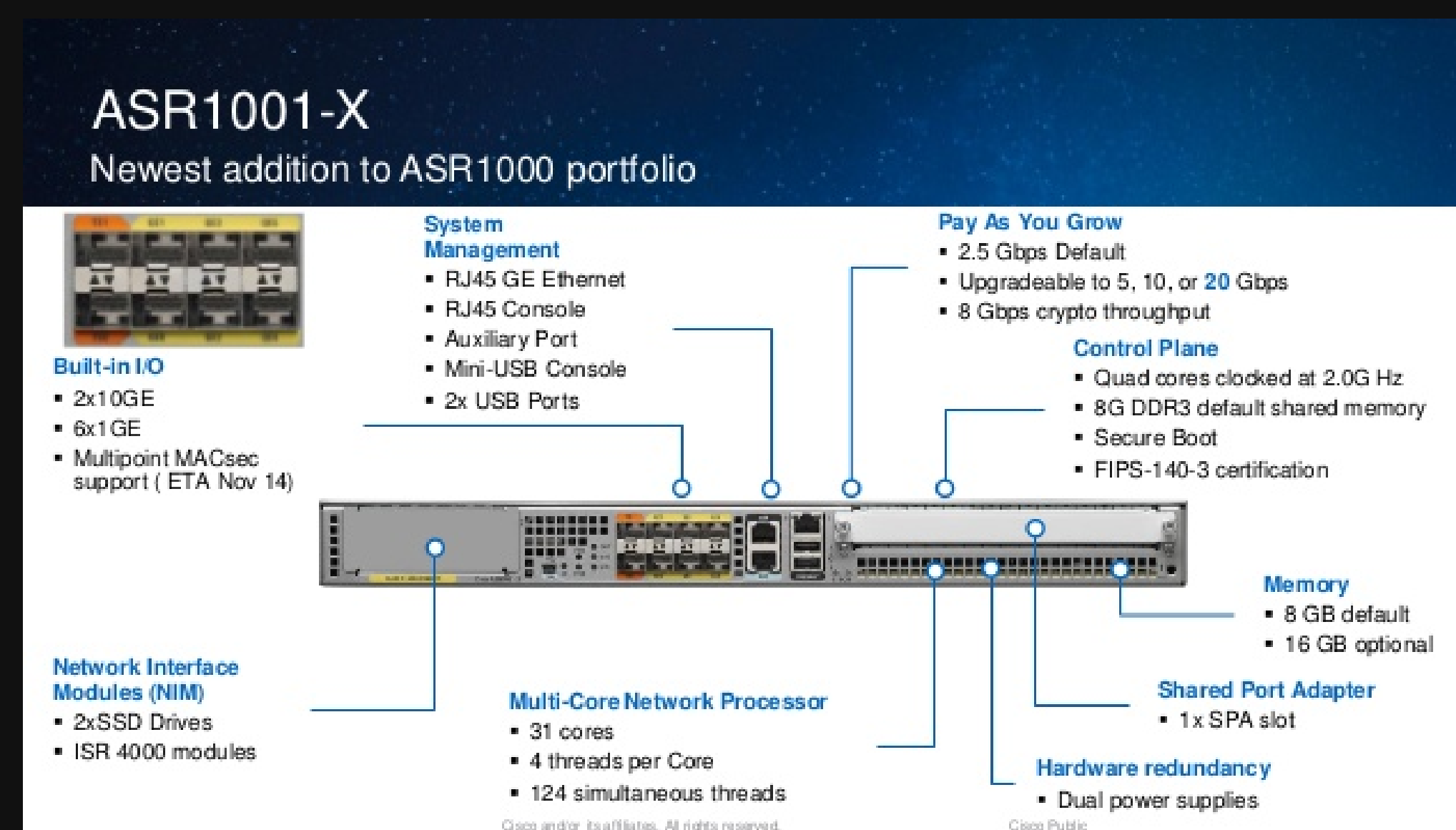
SOFTWARE TOOLS



SOLUTION

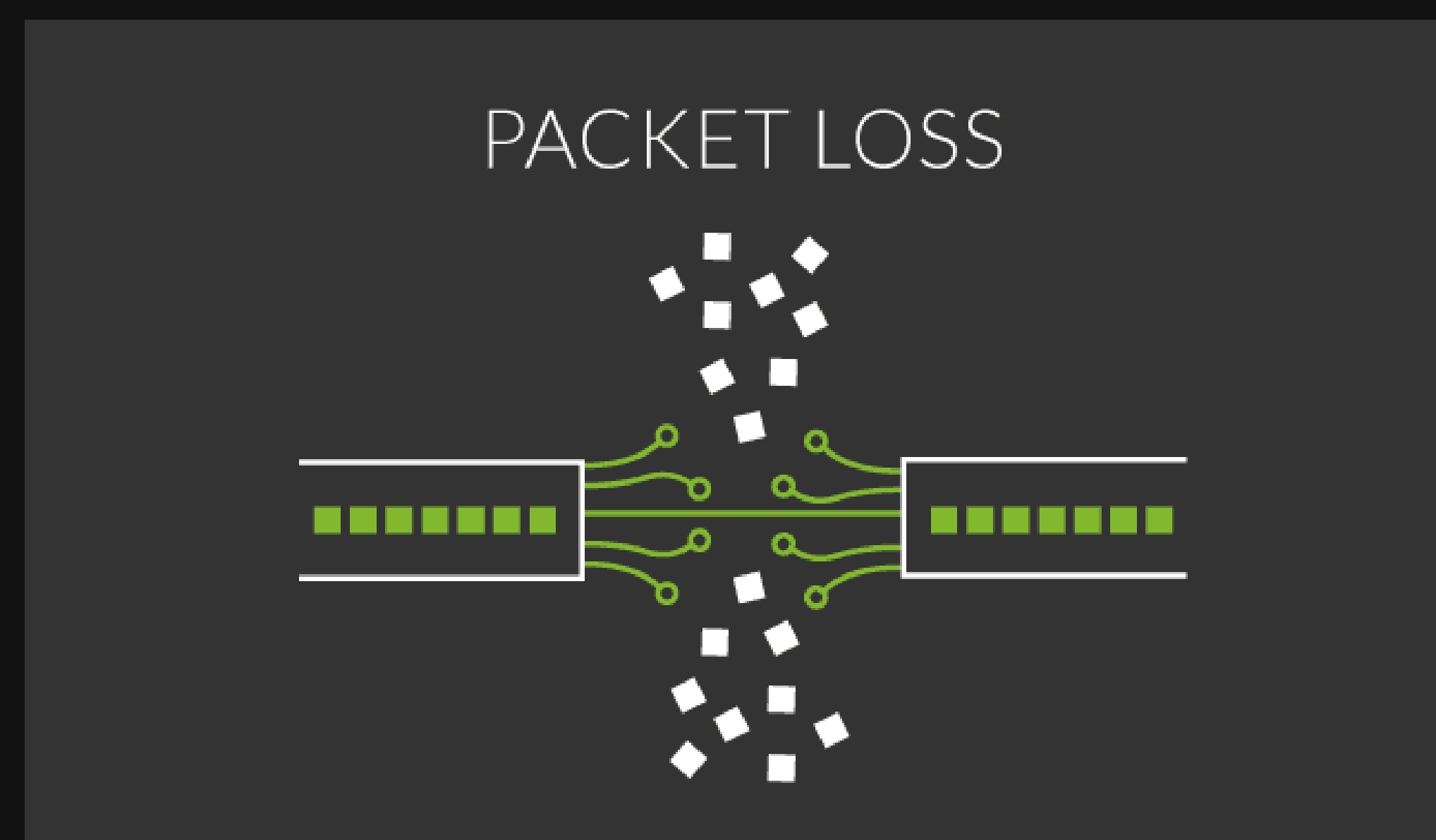
Need a tool to communicate crypto system performance in the following ways

- Store, analyze and visualize system crypto load state
- Correlate crypto system performance/throughput with software profile
- Send crypto system licensing update notifications
- Analyze historic performance data over a period of time



PROBLEM

- Throughput/performance is critical to Cisco router
- Limited CLI to view network device utilization
- Manully filter CLI data to locate performance hotspots/spikes
- Difficult to extract meaningful information from current model



STATUS QUO

Issue command: show platform hardware active qfp data usage

```
CPP 0: Subdev 0      5 secs   1 min   5 min   60 min
Input: Priority (pps)    0         0         0         0
      (bps)    136      176      176      176
      Non-Priority (pps) 1486679  1486592  1486574  1061121
      (bps)  5178839944  5177263288  5177195328
3695596184
      Total (pps)  1486679  1486592  1486574  1061121
      (bps)  5178840080  5177263464  5177195504
3695596360
Output: Priority (pps)    0         0         0         0
      (bps)    128      200      224      216
      Non-Priority (pps) 1486697  1486612  1486593  1061138
      (bps)  4148073456  4146578520  4146517640
2959896496
```

Issue command: 6ru-3#show plplatform hardware crypto-device utilization

Past crypto device utilization:

1 min (percentage) : 82%

(decrypt pkt): 89188656

(encrypt pkt): 0

5 min (percentage) : 81%

(decrypt pkt): 447441083

(encrypt pkt): 0

15 min (percentage) : 63%

(decrypt pkt): 1056940755

(encrypt pkt): 0

SOFTWARE ARCHITECTURE

