NetFlow for Zabbix

How to expand Zabbix Capability with Netflow

Before hand…. A few words about us…

Network Performance Intelligence

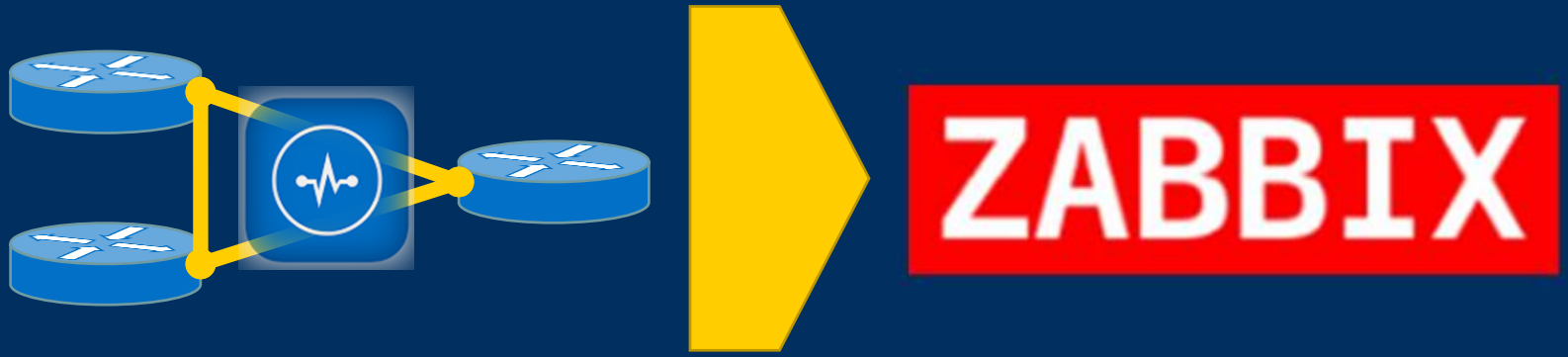
About H5 Network

International Software Company

- Founded in 2009
- R&D based in Pessac (Bordeaux, France)
- H5-Flow : **High Performance Netflow Collector**
  - → Up to 500K Flows per minute
- H5-box : **Branch & SME Netflow exporter and Cyclic Packet Capture**
  - → Small form factor solution when Netflow is not Possible on site
- H5-Appliances : **DC NPM Probe 70 metrics and Cyclic Packet Capture**
  - → Up to 40Gbps and 308TB of Packet Capture
- H5-RT : **Multicast flow Monitoring**
  - → Satellite Multicast Monitoring, IPTV Monitoring, Financial Multicast Monitoring, etc…

Key Customers

What's NetFlow?



How H5 help you get Netflow data in Zabbix

Netflow Zabbix Integration : Network Monitoring

Monitor the Network with Zabbix

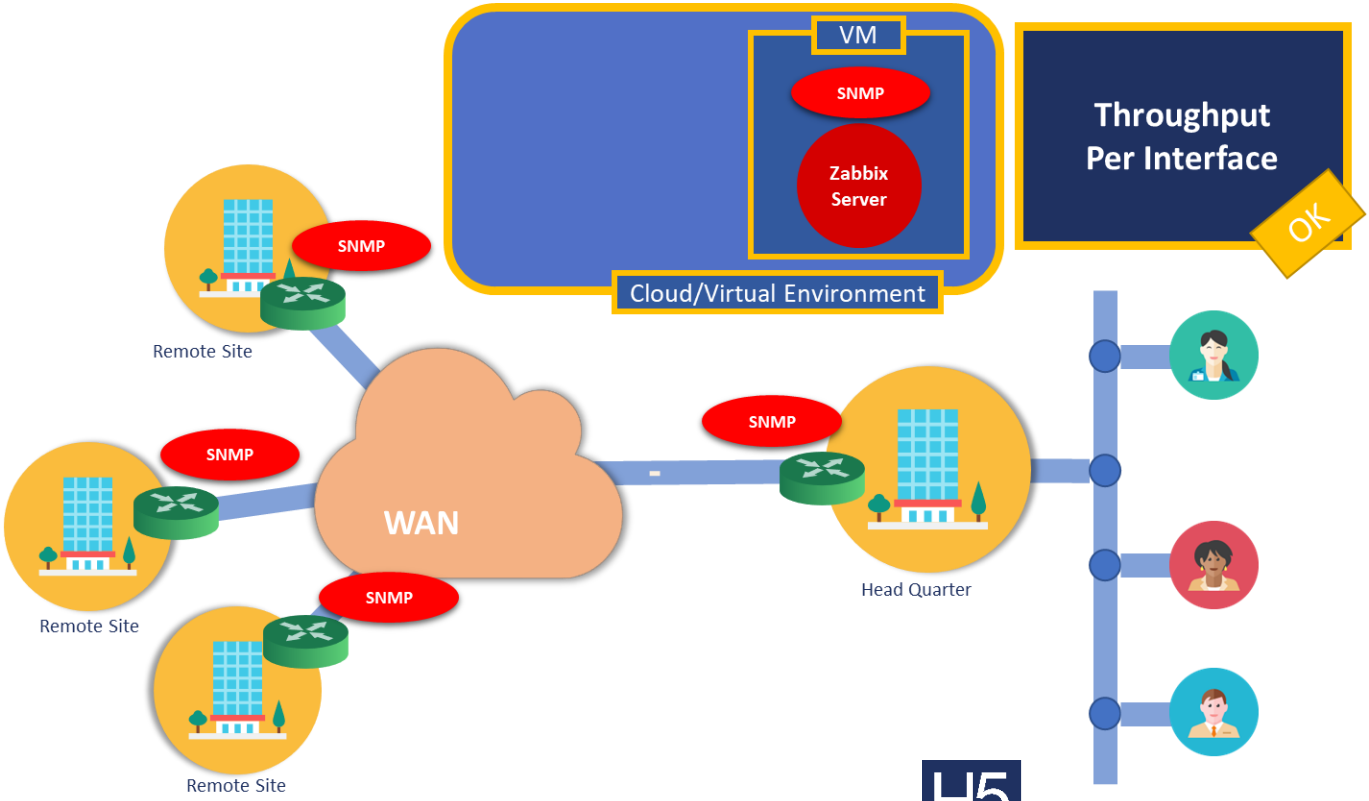
Router availability

Router device health

- CPU
- RAM
- Drops
- etc…

What about Throughput?

- Per interface

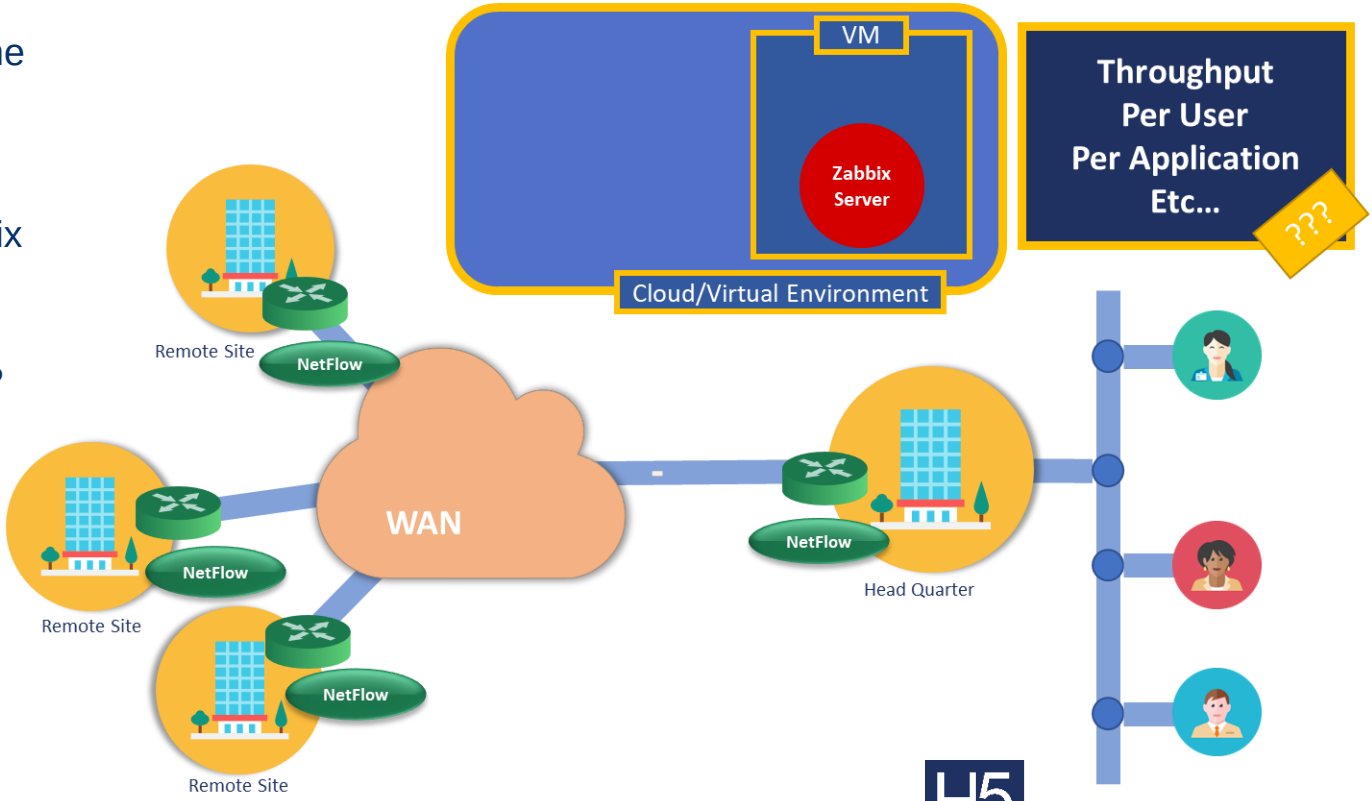


Netflow Zabbix Integration : Netflow on Routers

With NetFlow Routers on the Network can export data about each flow processed on its interfaces

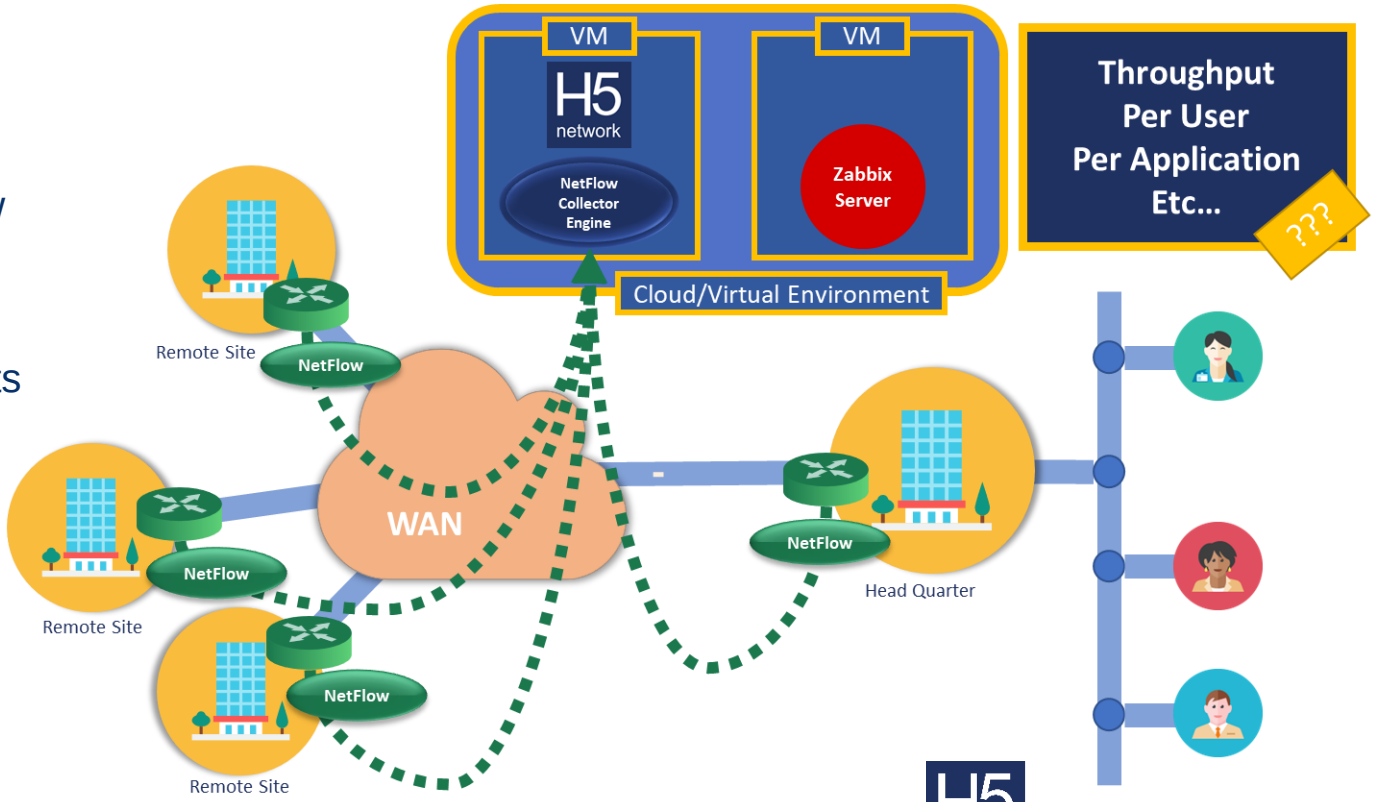
How to get Netflow in Zabbix and monitor :

- Top IP?
- Top TCP/UDP Port?
- Top Conversations?
- Top domains?
- Top subnets.
- Top applications?



Netflow Zabbix Integration : Netflow > H5-Flow

- Collects Netflow tickets from Routers on HQ, DC Branches, etc...
- Supports Netflow & sFlow
- Unlimited Devices & Interfaces
- Aggregates Netflow tickets to conversations.
- Up to 500K Flow per minute
- Up to 1-year data retention



Netflow Zabbix Integration : H5-Flow > Zabbix

Integration based on Zabbix Agent V2 Golang Plugin

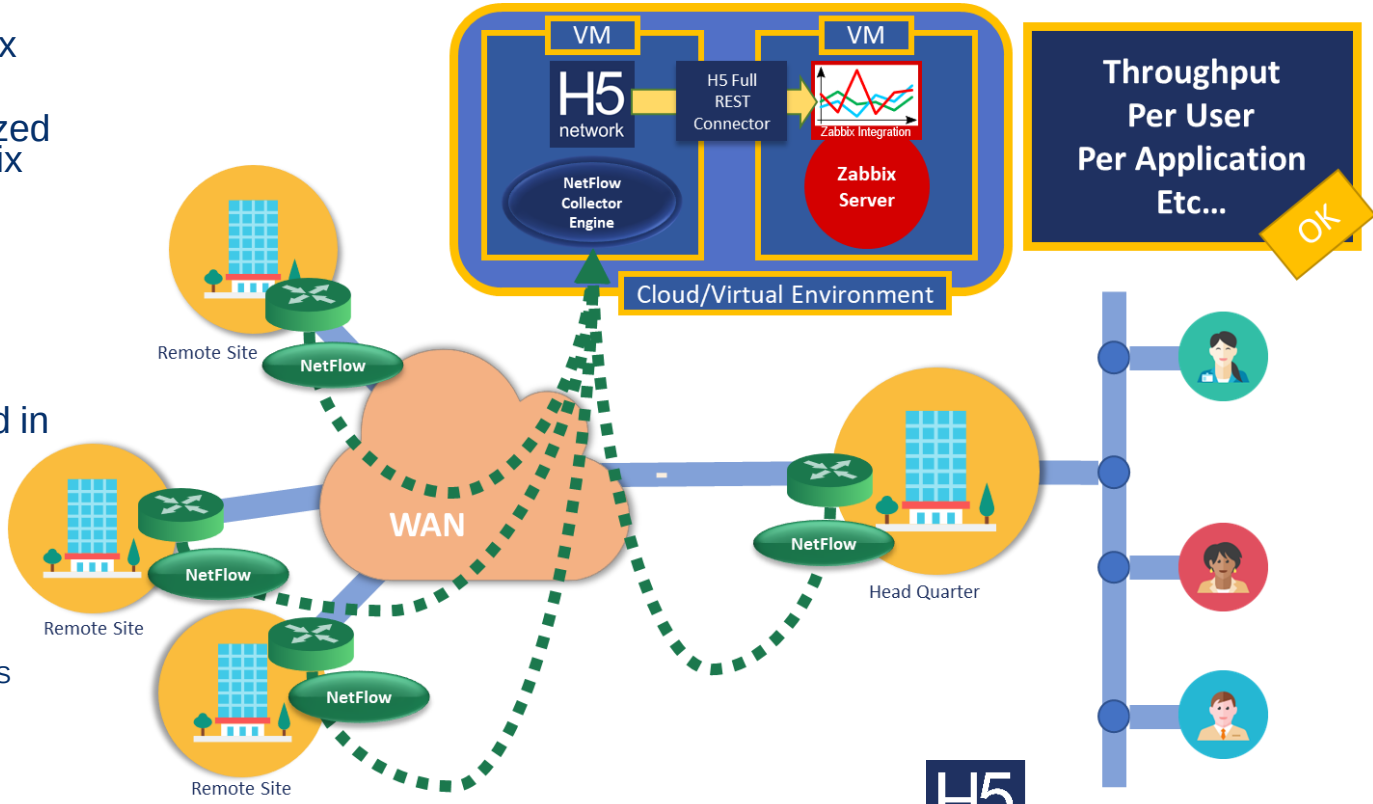
H5-Flow data is Synchronized to Zabbix as genuine Zabbix data.

Only Aggregated data is pushed

- Conversation aggregation
- Time aggregation

Aggregated data is inserted in Zabbix Database for each location:

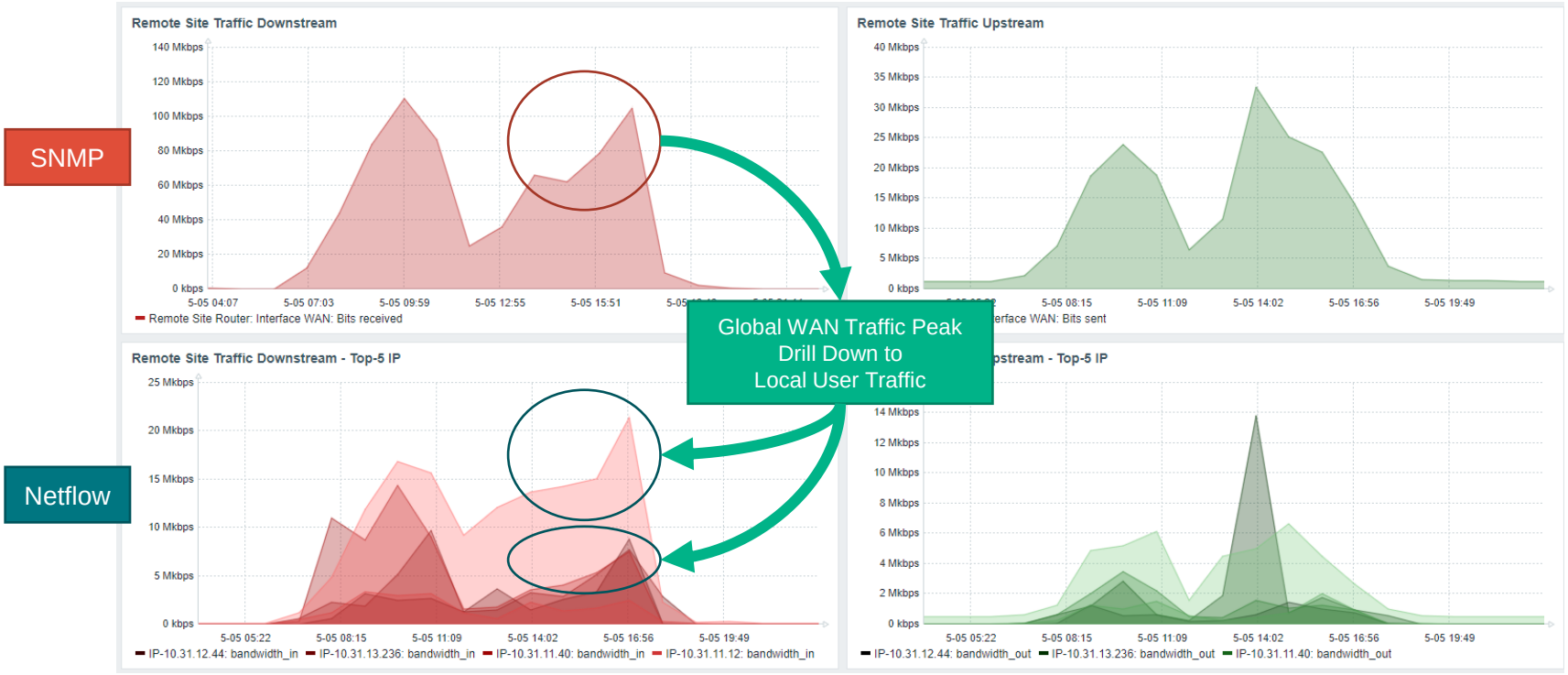
- Top local IP
- Top remote IP
- Top TCP/UDP Port
- Top Conversations
- Top local domain/subnet
- Top remote DC application, SaaS Application, etc…



Netflow Zabbix Integration Example

Top Users and Top Applications per site

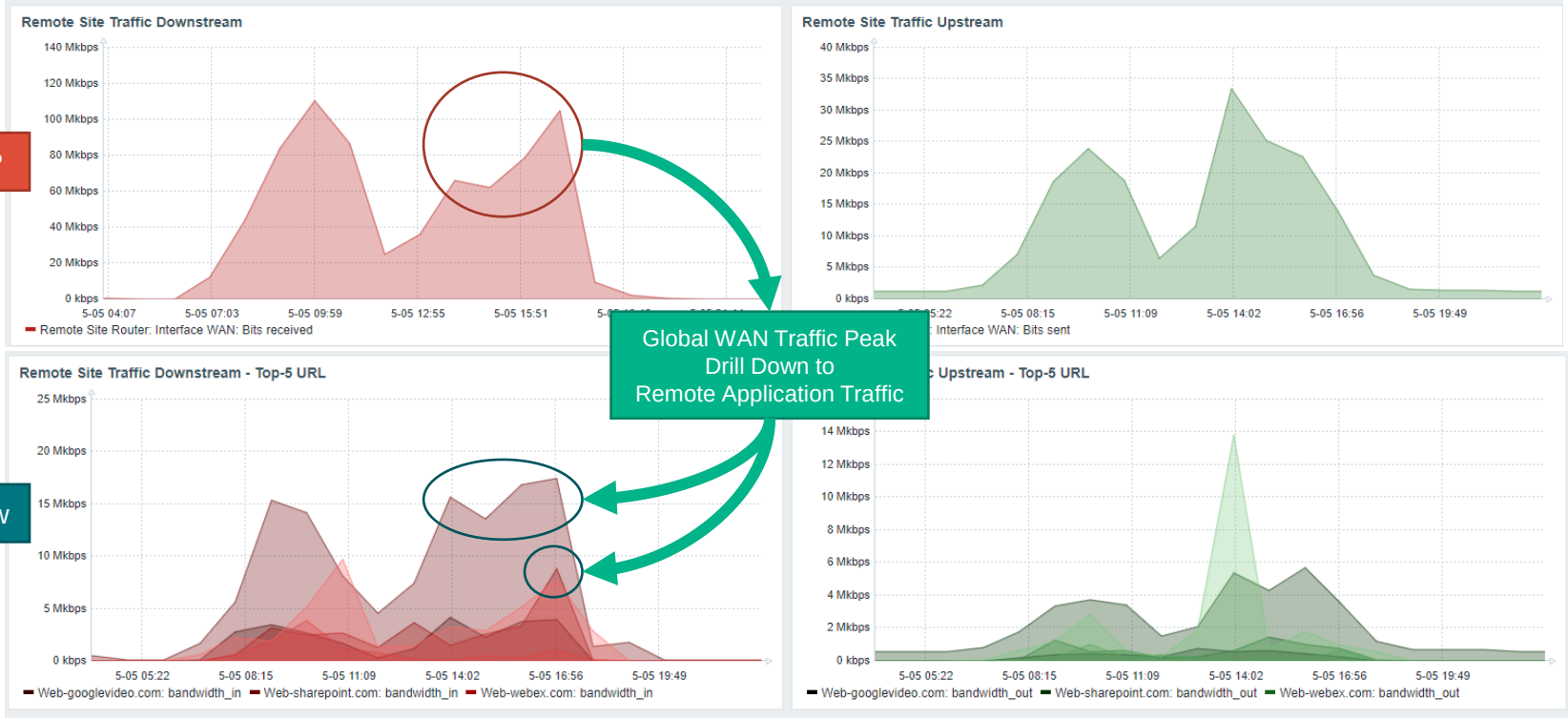
Top Users per site



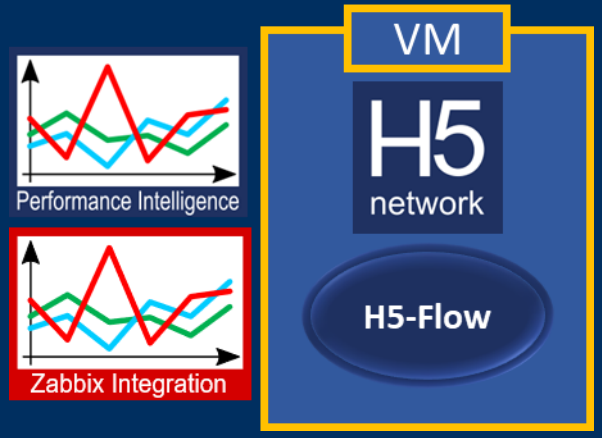
Top Applications per site

SNMP

Netflow



H5-Flow Zabbix Use Cases

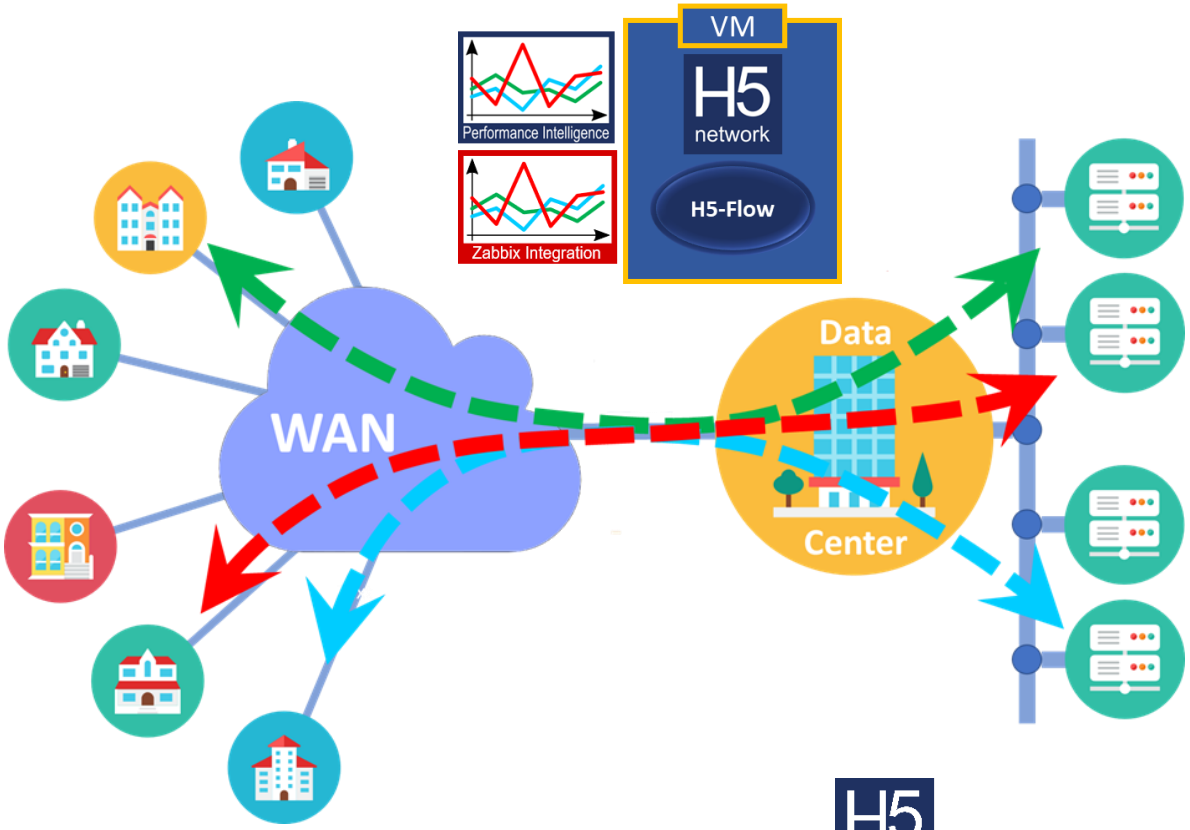


ZABBIX

Augmented Wan Capacity Planning

Application flows from WAN Link Traffic on HQ, DC, Remote Sites, etc…

Get top Servers, Applications and Users Zabbix Dashboards for augmented WAN capacity Planning.

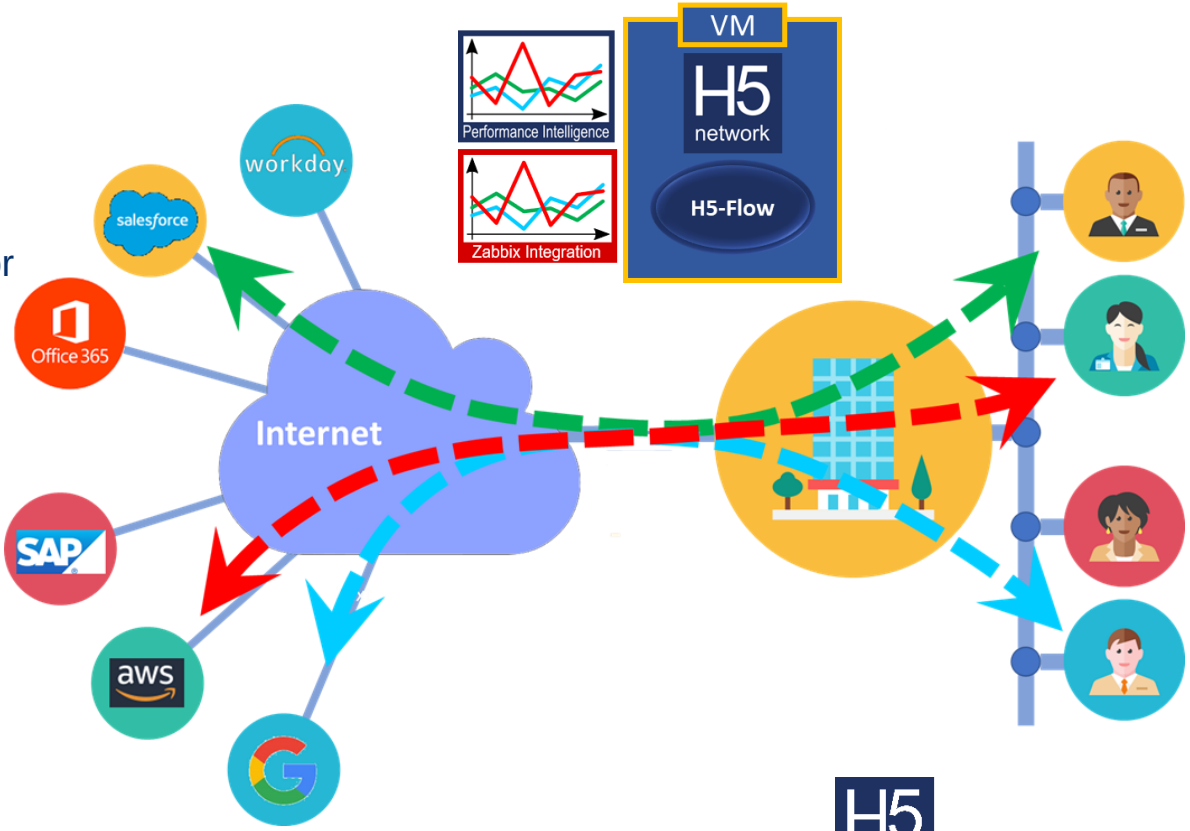


Cloud or SaaS Monitoring, Tele conferencing Monitoring

Collect Application flows from Internet Access on all locations.

Use H5-Flow data to Create brand new Zabbix dashboards for

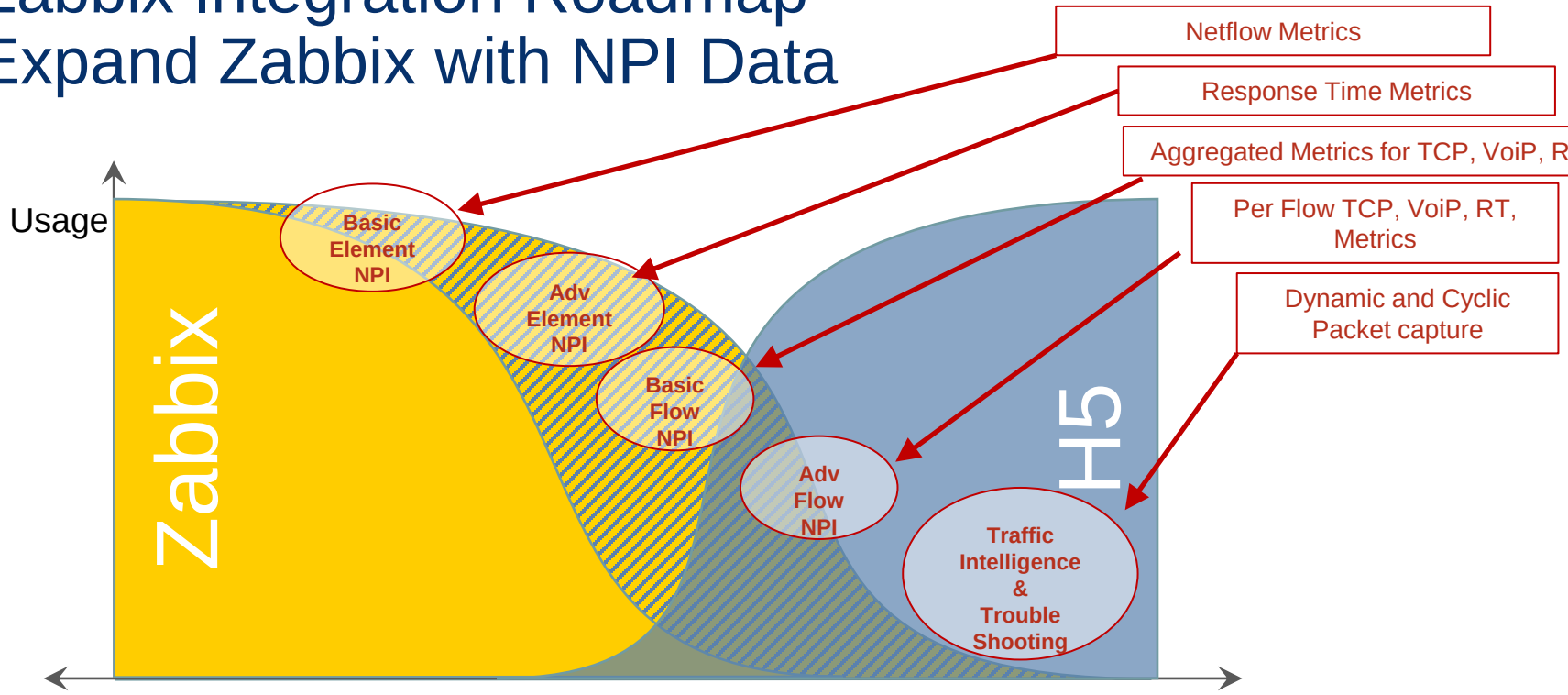
- Monitor Teleconference services : Teams, Google Meet, Zoom
- Monitor Managed Cloud domains : AWS, Azure, GCS
- Monitor SaaS applications: Sales Force, Workday, O365, etc…



Beyond NetFlow for Zabbix

Zabbix H5 partnership Next steps

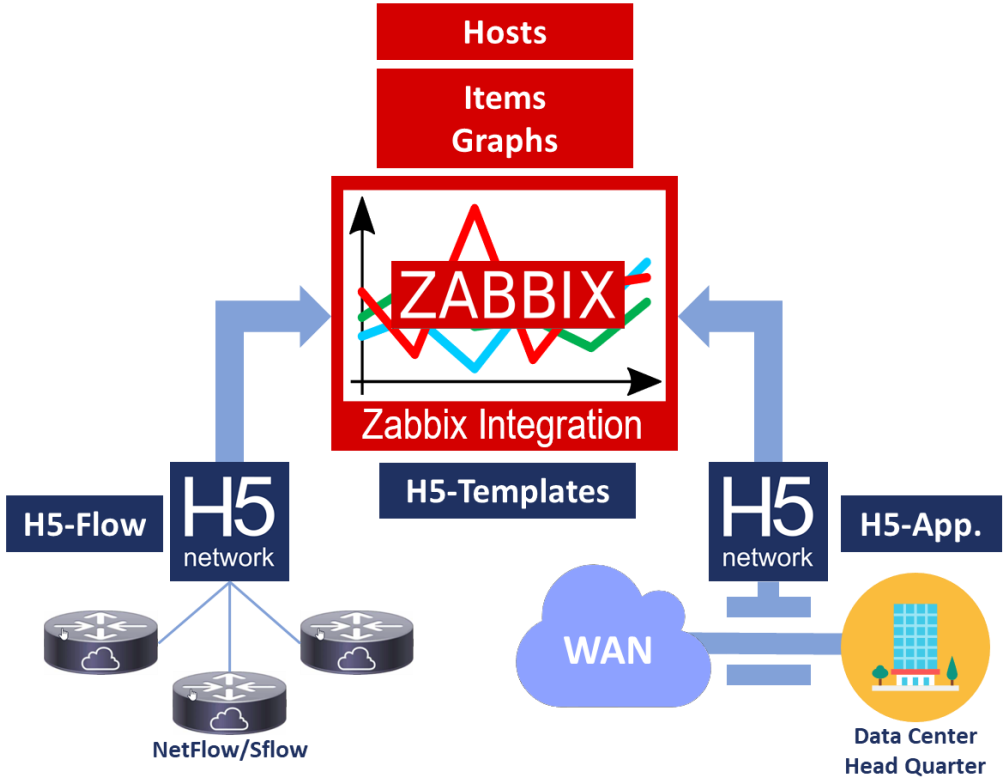
Zabbix Integration Roadmap
Expand Zabbix with NPI Data



H5 Zabbix Integration – Next Steps ?

Expand Zabbix Integration to additional H5 products and metrics :

- H5 appliance
  - → 70+ H5 metrics as Zabbix Items : TCP RTT, Server Response Time, Packet Loss
  - → NPI Charts (Aggregates & Tops)
  - → NPI SLA (Triggers)
  - → Packet Capture
- H5-RT
  - → Multicast Monitoring on Zabbix
  - → IPTV, etc…



Thank You
See you at H5 Booth and Workshop for Demo and Integration show case