



Prodapt powering
global telecom

Staying ahead of Security Threats

Credits

Balaji T N

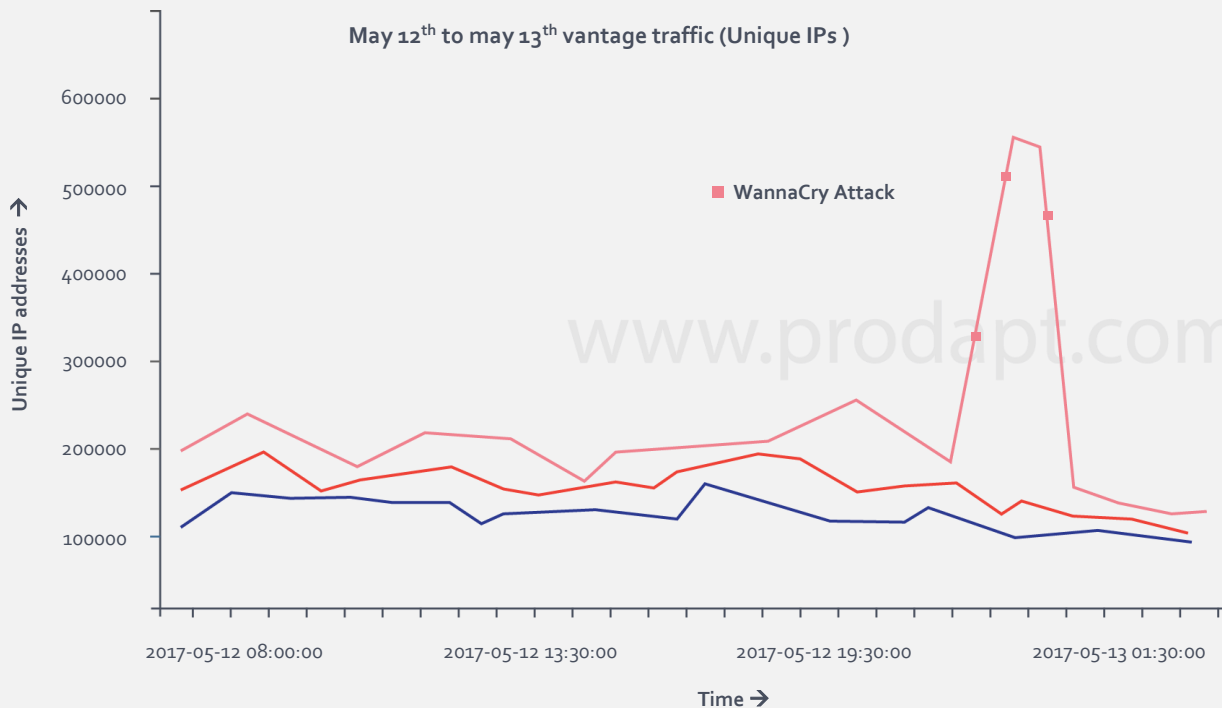
Rajeshkhanna J

Mogan AB

Major security issues tend to occur rarely, but the volume of impact disrupts normal business operations



May 12th to May 13th vantage traffic (Unique IPs)

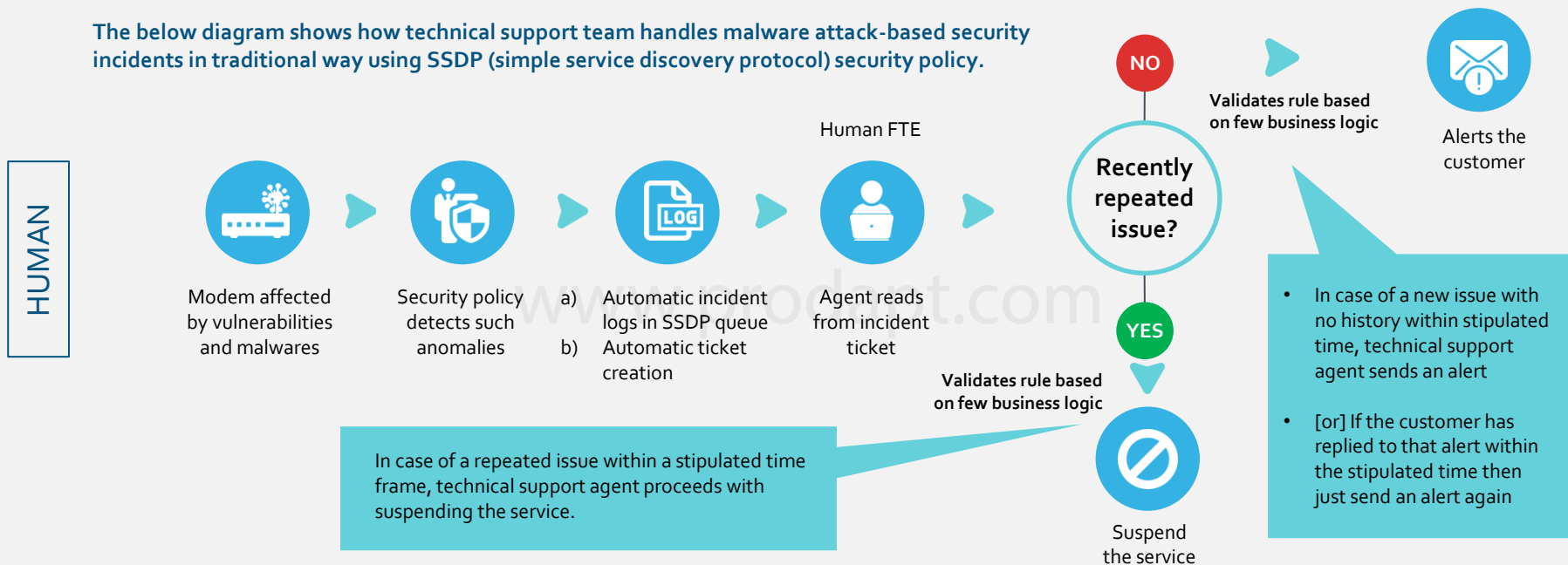


Security teams which typically tend to be smaller in size, are not equipped to handle the high volume of incidents when a major crash down occurs. The graph shows the sudden spike in the number of unique IPs affected during the 48 hrs of WannaCry virus attack.

Low frequency, high volume security threats are difficult to deal with due to bandwidth constraint

How DSPs' business processes are handling the security threats using traditional methods

The below diagram shows how technical support team handles malware attack-based security incidents in traditional way using SSDP (simple service discovery protocol) security policy.



Usually, a small core team is assigned to deal with security incidents during regular operations. Once low frequency & high volume security threat occurs, business operations get disrupted. These sudden incidents require immediate action.

Common challenges with technical support agent in analyzing & fixing tickets

1

Bandwidth issue

Unexpected volume of cyber-attacks make it almost impossible for the technical support agent to use manual threat analysis techniques to keep up with a rapidly changing threat landscape.

2

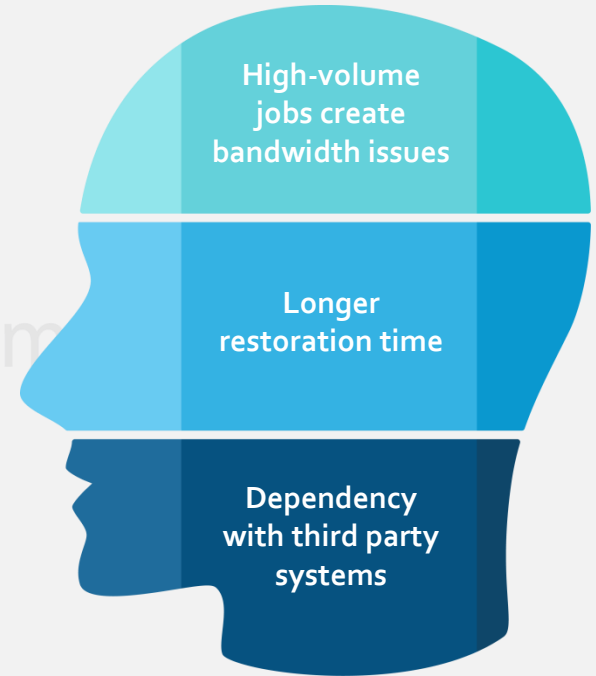
Timing issue

After the root-cause identification, the recovery process still takes time as it involves humans in different steps from ticket allocation phase to pre-diagnosis and restoration phase. Because of inefficient handling process in traditional method, it takes longer time for restoration.

3

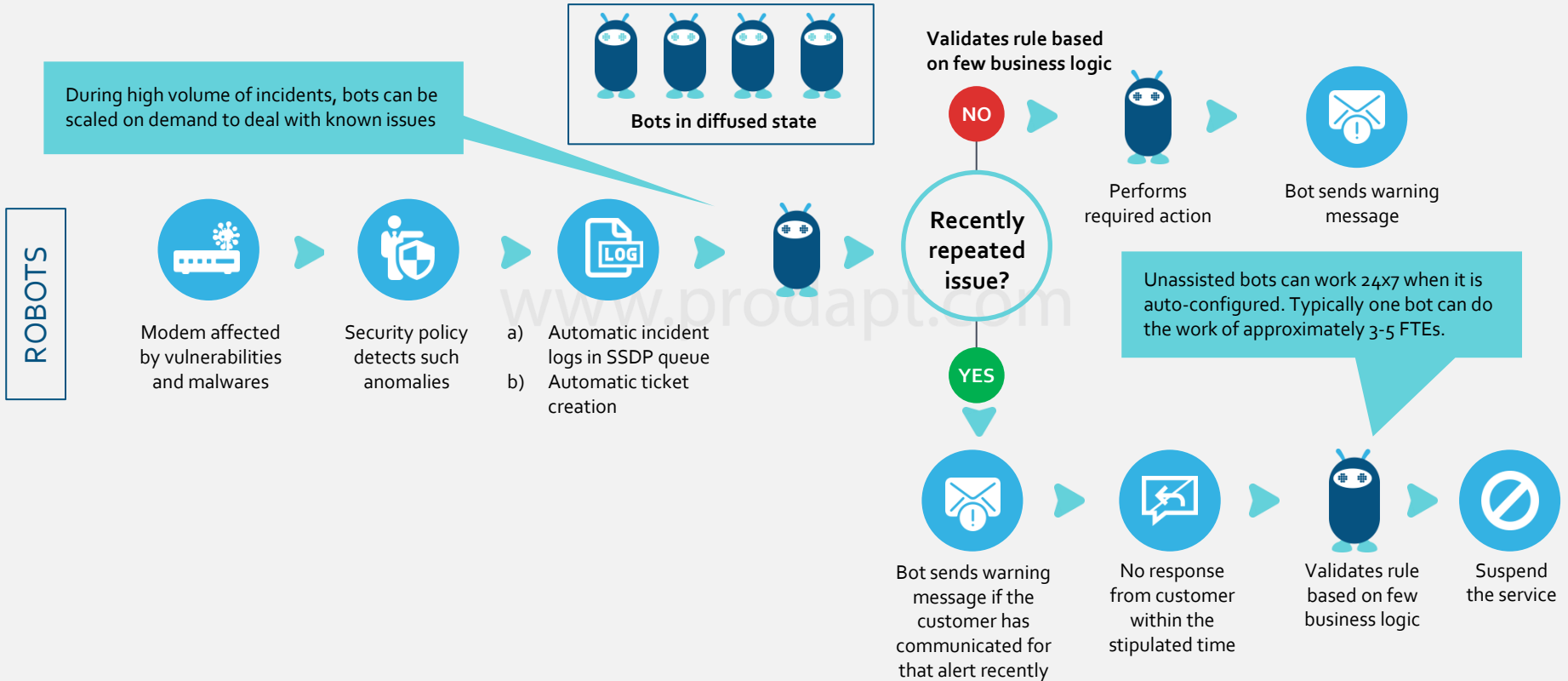
Higher risk

During the restoration phase, the agent performs multiple interactive tasks with many integrated third-party systems like planning and network system, provisioning and activation system. This increases the risk of impact on other systems.

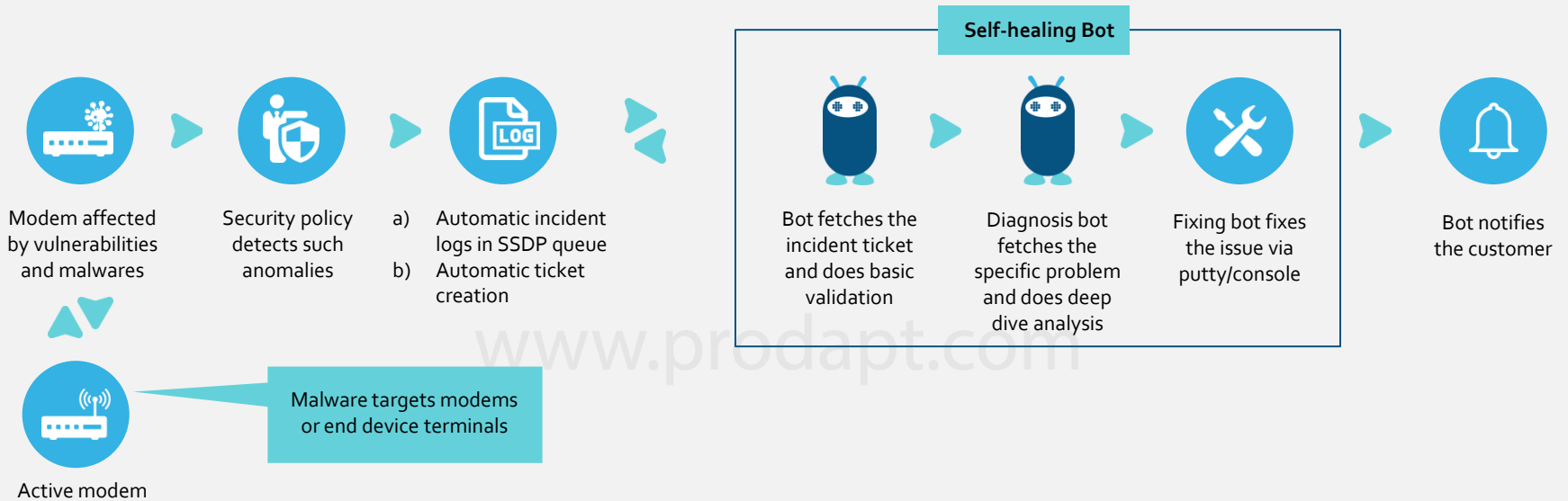


By leveraging RPA capabilities, it's possible to automate mundane, repeated, rule-based security operations to provide support agents with better access to information and enable smarter and faster decision making.

Security bots can be scaled as required during major security incidents



Unassisted bots can be further augmented with advanced capabilities to help in self-healing process



Activity 1: Deep dive analysis

After performing deep dive analysis for the specific problem, **Diagnosis BOT** runs audit process to understand the impact of infection using auto-regression functionality.

Activity 2: Recommended action

Based on the analysis, it gives recommended activities from preloaded repository. The repository has various templates with quick fix scripts. It will map the checklist with identical problem in known, repeated & common issue list.


Activity 3: Transfer the control

After generating a quick fix action script to fix a specific issue, it shares the execution commands with **Fixing BOT**.

Activity 4: Fixing BOT

Fix the problem by executing specific action scripts via command windows or putty console

How RPA helped one of the leading operator in the US to achieve various benefits



Agile response to security incidents & proactive notification of has improved credibility & customer satisfaction.

Existing bots can be repurposed to handle other security back-office tasks. e.g. destructive attack, DDoS attack and unauthorized access etc. Approximately 30% to 40% savings on development time & cost due to its reusability.

Implementation of RPA in security operations yielded 61% of instant savings and improved operational efficiency.



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