

USE CASE

Event Driven Auto Remediation

Network Management



Orchestral.ai
AI-Driven Orchestration

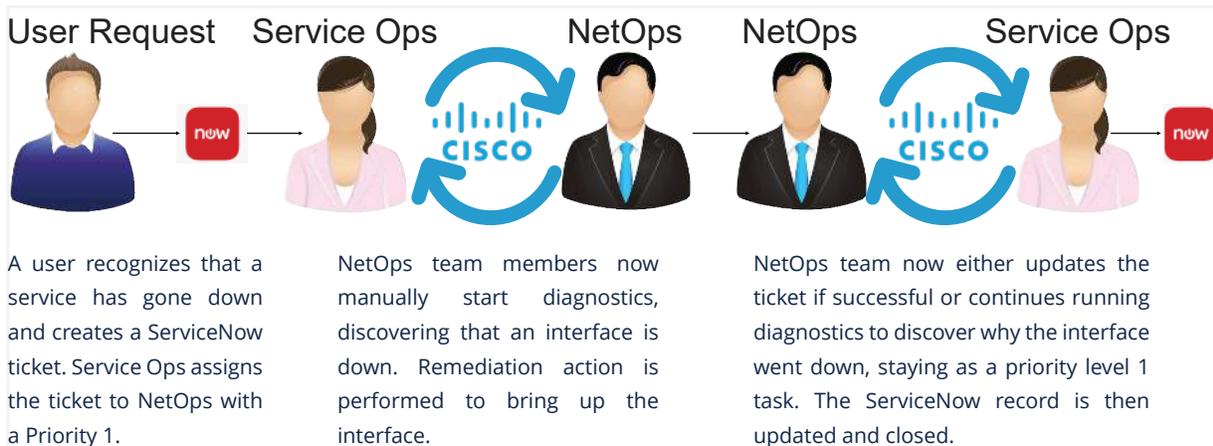
Modern Problems: Responding to Every Network Problem

- A user complains about an application not working, only to realize that there is a connectivity issue. The user then must open a service ticket which then alerts the company that it faces the inevitable issue of a critical outbound interface going down. The ticket gets moved by the service team to the network team with a priority 1 for immediate action regardless of what time it is.
- The network team, oftentimes woken up in the middle of the night to deal with the issue, must then troubleshoot and run diagnostics to discover which interface is down. Once identified the remediation action of bringing up the interface occurs, the connection is verified and the service ticket is updated and closed.
- These user complaints pile up leading to an overwhelmed service ticket system, meanwhile the network team must always respond to the event as though they are priority 1 until they are correctly identified, even if a simple interface-up command would resolve the issue. This leads to increased stress for the network team and increased employment costs through overtime worked for issues that could wait until the morning.

iBii Benefits

- The Orchestral Data Bot gives the ability to always have your data monitored so that in the case of a critical outbound interface going down an operations team member can immediately get a message indicating which interface has gone down and whether a standard bring up operation is able to resolve the issue.
- Orchestral.ai is able to automate existing tasks without having to rip and replace any existing services utilized by the company.
- Not only saving money by reducing network down time, but also reducing the stress of the IT teams by automatically being able to assign the incident ticket a priority 1 or a priority 5, thus allowing the team to know whether they can relax or if they need to jump to action.

The Conventional Workflow Problem



Manual Process: 2-4 Stressful Hours for Network Operation

FIGURE 1: Previous Manual Interface Outage Response



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iBiiST2

Orchestral.ai's iBbio Solution

Orchestral.ai introduces a completely automated solution for this problem that is able to perform all of the existing operations to ensure that the companies existing IT tools and practices are maintained.

To start the Orchestral Data Bot, a multi vendor data collector, collects statistical data from all the infrastructure end points and publishes the data to iBbioAI's infrastructure telemetry data store. The Data Bot is also collecting all syslog information from network switches which allows iBbioAI to recognize immediately when the critical outbound interface goes down. Once recognized, iBbioAI will trigger an iBbioST2 auto_remediation_workflow without delay. iBbioST2 then executes the following steps:

If the router is accessible: Informs the operations teams about the outage through omniconmunicational chatops and indicates the start of the auto_remediation_workflow. Collects the show tech information on the router before and after the remediation action. Zips the two files as the artifact of the incident. iBbioST2 then opens a service ticket with priority 5 on the ticketing system and attaches the troubleshooting artifact for further analysis. Lastly, informs the Ops team through chatops of the new incident created and the number for analysis.

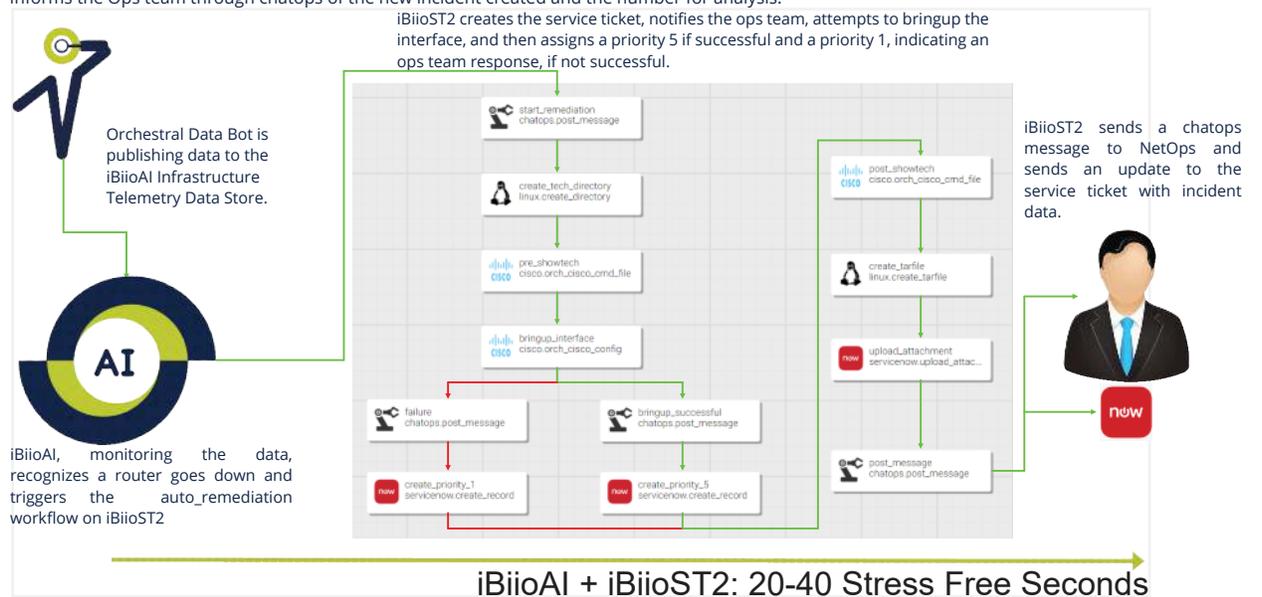


FIGURE 2: iBbioAI + iBbioST2 Automated Event Driven Network Remediation



Orchestral.ai
AI-Driven Orchestration

Orchestral.ai is a team of like-minded technology professionals possessing a combined experience of over 100 years in the IT industry.

Our team is uniquely versed in building commercial web scale clouds architectures, extensive knowledge and experience in data center operations and building data centers across the globe. We also pride ourselves on our expertise in the field of system modeling for capacity planning, scaling business applications, and our focus on the user experience. The combined expertise of our team at Orchestral has been leveraged to assemble the patented technologies aimed at alleviating the pains currently plaguing the IT industry.

Contact Us

For more information, please contact our Client Development Team at info@orchestral.ai