Making the help desk (helpful

CrushBank uses AI to arm its IT staff with better information



Hello! How can we help

you?

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Transformation

Outcome

The help desk support technician who can quickly fir application user's problem is the unsung hero of any Managed Service Providers (MSPs).

MSPs have been around for over two decades, ever s more cost effective to focus on their core competenc their IT. Often, the same help desk engineer at an MS multiple applications supporting vastly different cust Yet, even when the help desk closes a ticket, about 5 problem has not been resolved adequately.

The founders of CrushBank know firsthand the challe trying to provide personalized service. For more than the New York metropolitan area that supported seve ranging from 100-person law firms to 1,500-person between.

Learn more about IBM Watson® Discovery

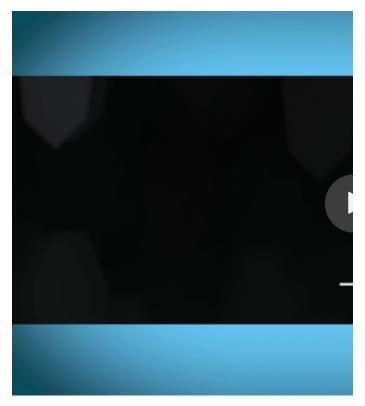
Help desk engineers are expected to be experts in be customers' specific configurations, history and issue desk with a problem, they expect that the presumed excuses, and without delay. CrushBank recognized the technology piling up in most companies, those expect becoming nearly impossible for help desk staff to me

According to Brian Mullaney, Principal and Chief Revicurrent information-provision model is proving increMSP for several reasons.

First, there is the vast amount of information that the through. "It's a struggle for these organizations to ex useful information on the spot while they're being ch clients on the phone," he says. "Eighty percent of the unstructured. It's not in a metadata field that you call

In Mullaney's experience, around 50% of an enginee information before he or she can even begin to troub This leads to a second problem for firms: a direct implengineers are paid to solve problems, but only half the points out, "Half of [their salary] is going to just finding of technical competency is leveraged"

Finally, the reality is that highly experienced and kno are getting harder to find and keep. Most IT graduate application development. Further compounding the among personnel—38.3% every year, according to M the six months of time and expense to train and onby money walk out the door only 18 months later.



CrushBank: Using machine learning to transform IT suppo

Improved productivity

IT staff increased help desk ticket resolutions by 40% per day

"We're not looking to We're looking to mak their jobs, faster, mo

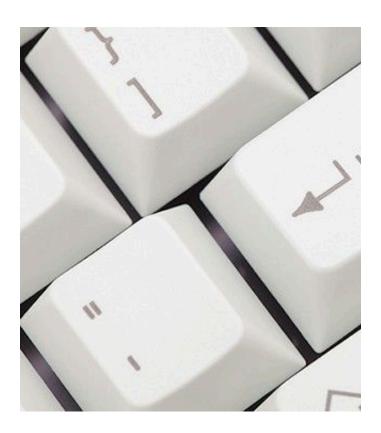
Brian Mullaney

Principal and Chief Revenue Officer CrushBank Technology LLC

It was clear to CrushBank that IT firms that continue desk model will certainly face a fourth consequence: and a reduction in customer satisfaction.

CrushBank's founders decided they wanted to disrupt desk model by using AI technology to quickly sift thrunstructured data to revolutionize the way MSPs and information and services to their customers.

"This is a problem that has haunted this space, this i David Tan, Chief Technology Officer and Co-founder powerful platform that could help us combine all tha it back to the end users. When we found Watson and it would be a great fit for the solution we were building



Using AI to interpret al information

CrushBank approached IBM and soon became one o partners using Watson application programming inte As CrushBank experimented with the early Watson N products and APIs, it became clear that the machine turned into a viable offering to other service provider

In early 2019, CrushBank launched its eponymous C IBM Watson Discovery platform to perform AI-assist personnel to quickly find the most relevant informati The solution takes in an organization's structured an interprets it using machine learning algorithms and prints in a useable format.

CrushBank hosts the software as a service (SaaS) so customers on a per-user basis. It comes preloaded ϵ

from key manufacturers such as Microsoft and truste StackExchange. CrushBank then adds all the relevan customers' systems, including unstructured data suct the IBM Watson Discovery platform.

To quickly find product and customer information, he all the resources that they would typically retrieve from pane-of-glass web interface. The machine learning c Discovery solution continuously refine and improve i This continuous filtering ultimately creates a bank of workers can tap into for instant answers.

Even the smallest firm of 5–10 employees can use the marketplace that constantly changes through a rising acquisitions, the solution becomes even more valuable and important, according to Mullaney. "Every time you put two companies together, that's two systems that don't talk to each other," he says. "And CrushBank can pull those systems together and make them intelligent and legible from one dashboard."

Early on, CrushBank realized that teaming with IBM would allow it to focus on the frontend user interface (UI) and user experience (UX), while IBM continues to improve and enhance the underlying AI technology behind its solution. "We're a faster, more responsive, more agile organization because somebody bigger and better is dealing with the platform," says Tan.

CrushBank recently launched two new services based on its proprietary offering and IBM Watson Discovery technology.

The first, Resolve, simplifies the help desk engineers' work even further. They select an assigned ticket and click "work on ticket," and the CrushBank application returns the best suggested information from the available resources. "It threads the results onto one pane of glass listed in order of clearly identified and order of confidence," says Tan. It further speeds the problem-resolution process and provides information that a newer user might not otherwise know to look for or consider.

The other service, Insight, as its name suggests, uses the power of the IBM Watson Discovery platform to help MSPs uncover insights that previously lay buried in the vast repository of their help desk interaction data. A key feature of the Insight module is root

cause analysis. Before developing this solution, a customer mig problem with one of its supported systems unless tickets were tagged up front, which is often not the case. Although 10 calls same root cause, a problem can manifest itself in different way report it differently.

Tan explains: "Sometimes someone will call up and say, 'I can't log in to my system.' Sometimes someone will say they can't log in to Citrix. Sometimes someone will say, 'my password doesn't work.' All of those may have the same exact cause and resolution. And once people actually start working on it and put their notes in, [Insight] can highlight that and pull that out and make that information available."

Ultimately, the CrushBank solutions enable help desk employees to work smarter, not harder, with the help of AI. As Mullaney says, "It's about taking the efficiencies that are available and driving them down to the employees to make them better employees."



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customers, they can expand without having increased headcount."

David Tan

Chief Technology Officer and Co-founder CrushBank Technology LLC

More efficient employees—happier customers

The results for CrushBank's customers that have embedded the solution into their help desk workflow and require their engineers to use it have been nothing short of phenomenal. Since its launch at the beginning of 2019, the CrushBank solution, based on the IBM Watson Discovery technology, has fielded approximately 500,000 queries, and that number is rising exponentially as more companies adopt it.

The AI-powered CrushBank solution reduces the average time-to-resolution of help desk tickets significantly—often by 40%–50%. And faster resolution time means that the help desk can close more tickets in a day.

"We're seeing about a 40% increase in the number of tickets that our customers can close a day," says Tan. "So that obviously means they can grow the business. They can bring in more customers, they can expand without having increased headcount."

"CrushBank is not a tool," asserts Mullaney. "CrushBank is an employment efficiency function. It provides the ability for a company to take the technology and make its biggest cost structure, its payroll, wildly more effective and wildly more profitable."

For MSPs that spend up to half of their revenue on payroll, havi effective staff can generate big returns in scale and profit. "It's efficiency equals profit," Mullaney concludes.

Hello! How can we help you?

Mullaney makes it clear that the goal of using the CrushBank applications is not to reduce headcount. "We use the term 'employee-machine partnership," he says. "We're not

looking to replace people. We're looking to make people better at their jobs, faster, more efficient. And we're looking to make working at a help desk a better experience for the employee and for the person they're supporting at the same time."

Companies that use the CrushBank applications report higher satisfaction from their customers and an improved customer experience. Higher first-level resolution rates, faster call resolution and a greater sense of intimacy with the customer help drive these metrics.

Help desks have largely replaced onsite service techs, but they don't have to feel distant and impersonal thanks to CrushBank. "The ability [for the help desk tech] to pull up historical information and interactions from two weeks, two months or two years ago and to reference what's been going on during that time recreates that intimacy and just makes for a better customer experience—and a faster one, too," says Mullaney.

The CrushBank solutions have become valuable in unexpected ways to the MSPs that use them, according to Mullaney. In July, the employees at one of CrushBank's customers declared the CrushBank application "employee of the month," revealing just how tight that employee-machine partnership can be. "The more you personify CrushBank, the more you will understand its impact, the more you will understand where it fits from a cost structure in your business," he recommends. "The value, the interaction, the way you use it, it's all about that efficiency and about considering CrushBank part of your team as opposed to just another tool."

Furthermore, the CrushBank applications help MSPs reduce the negative impacts of high personnel turnover and the time and costs of training and onboarding new staff. Companies don't lose the institutional knowledge of the departing engineers; their logs and tickets become part of the knowledge corpus of the CrushBank solution. "Imagine taking the smartest engineer in your organization and cloning them 50 times over, so now everyone is that person," says Tan. "Now you have that, because Watson is sitting on your help desk."

Plus, all the information from the organization is part of the CrushBank solution, so it simplifies training because new personnel don't need to know where to look for solutions, they just need to use the dashboard. "People are now coming on in six weeks and solving problems because they don't need to know everything," says Mullaney. "They can find everything with a one-sentence search."

Although its market share among the more than 30,000 MSPs expects to continue its growth trajectory. The underlying IBM V lends credibility to the CrushBank solution, which in turn make Watson AI technology available to even the smallest of compa

Hello! How can we help you?

technology and democratizing it in a really manageable way for small to midsize businesses to consumers. And that makes AI a lot more pervasive," says Mullaney.

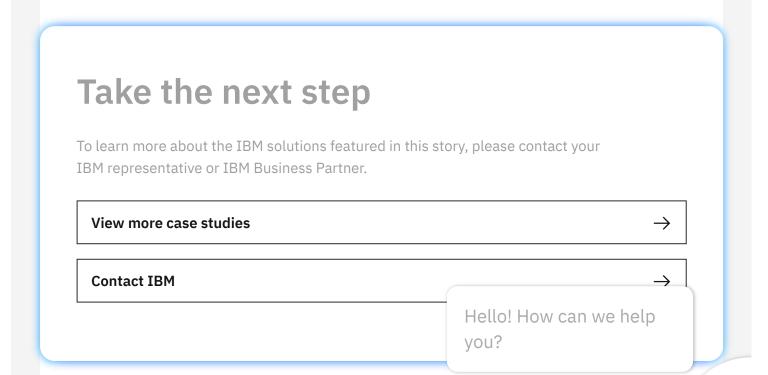


About CrushBank Technology LLC

Founded in 2017 in Syosset, New York, by two veteran MSP owners, each with more than 25 years of experience, CrushBank 2 developed the first AI-enabled IT help desk application. Using cognition, which is the process of acquiring knowledge, the CrushBank solution thinks, learns and informs decisions in the same way that engineers and support teams do. CrushBank streamlines help desk operations, resulting in fewer escalations to Level 2 and above. Help desk engineers see an increase in productivity, and users experience increased satisfaction with more first-call resolutions.

Solution component

IBM Watson® Discovery



Novolex

How Novolex contains its timelines

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