AWS PUBLIC SECTOR SUMMIT ONLINE

Improving customer experience through machine learning-powered analytics in the contact center

David Rosengrave

Head of Amazon Connect and Cognitive CX

Public Sector, Asia Pacific and Japan

Amazon Web Services



Contact Centers that connect with people



WE CARE in Singapore provided 900 hours of counseling sessions between January and May 2020, double the amount from the same period the previous year. WE CARE plans to continue leveraging Amazon Connect to extend its services to people who cannot travel to the center for counseling.



"We can scale the AWS solutions we're using in new ways and be more reactive during and after a disaster." Dan Beeston - ICT Manager, Juniper

In a single business day, AWS Professional Services worked with Juniper to set up Amazon Connect as an automated contact center as an immediate incident response when an outbreak occurs at a Juniper facility or when a total lockdown goes into effect.

Staying connected in a changed world

> The world has changed

300 million students being home schooled

Distancing is the new norm

Over 20% of workers work from home

Role of governments and the public sector redefined

Contact centers playing an increasingly critical role to citizens

Challenges in contact centers today















Poor
visibility into
quality of
customer
care

Compliance risk Timely discovery of emerging issues

Lack of real-time support for live calls

Disconnected ecosystem of products

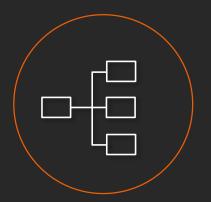
Expensive third-party tools

Poor transcription accuracy

Amazon Connect

Simple to use, omnichannel cloud-based contact center service that scales to support businesses of any size

The fastest path to customer service innovation



Skills-based contact routing



Voice and chat recording



Real-time and historical analytics



High-quality voice capability

Service architecture:

Multi-tenant across multiple availability zones connected through low latency links

Telephony architecture:

Host toll-free and direct dial numbers (DID) on our managed network of carriers

Contact Lens for Amazon Connect

New analytics capabilities powered by machine learning (ML) that are integrated in Amazon Connect













Advanced search

Detailed analytics and sentiment analysis

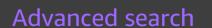
Automated contact categorization

Theme detection (coming soon)

Supervisor assist (coming soon) Open and flexible data

The out-of-the-box experience makes it simple for contact centers and their staff to use the power of ML with just a few clicks







Detailed analytics and sentiment analysis



Automated contact categorization



Theme detection (coming soon)



Supervisor assist (coming soon)



Open and flexible data

New powerful search features in Amazon Connect

- Search contacts based on keywords and phrases in call transcripts
- Filter by speaker type customer vs. agent
- Search based on conversation characteristics such as sentiment scores and non-talk time

Use case 1

Search for all conversations where customers have mentioned canceling their services and understand the magnitude of a potential customer churn issue

Use case 2

Identify contacts where customer sentiment at the end of the call was poor and then do a deep dive to find underlying reasons















Detailed analytics and sentiment analysis Automated contact categorization

Theme detection (coming soon)

Supervisor assist (coming soon)

Open and flexible data

English -



Amazon Connect

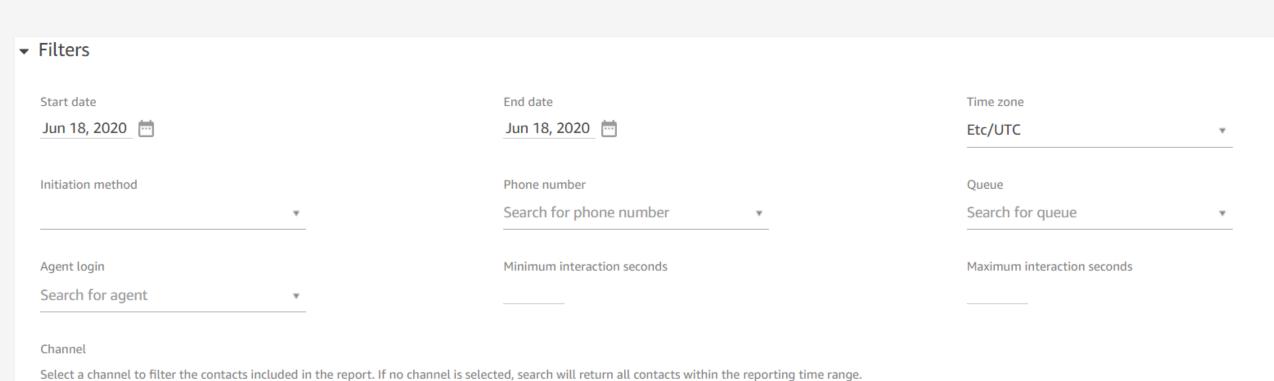


Chat

Voice

Customer phone number

☐ Task













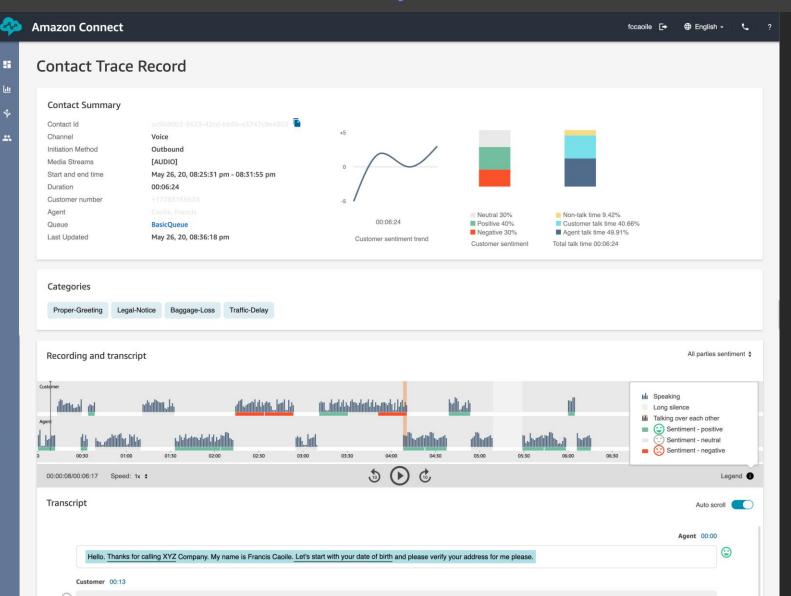
Detailed analytics and sentiment analysis

Automated contact categorization

Theme detection (coming soon)

Supervisor assist (coming soon)

Open and flexibl



Enhanced contact detail page

- Review of entire call transcript
- Customer and agent sentiment for every speaker turn
- Customer sentiment progression during the call
- Breakdown of participation between agent and customer
- Redaction of sensitive data in call transcript and audio recording







Detailed analytics and sentiment analysis



Automated contact categorization



Theme detection (coming soon)



Supervisor assist (coming soon)



Open and flexible data

Automatic monitoring of customer experience issues

- New page in Amazon Connect makes it simple to define and manage custom categories
- Specified criteria can be keywords, phrases, and conversation characteristics

Use case 1

Contact centers can now create scorecards that show what percentage of their agents adhered to scripts related to organisation guidelines for customer experience, such as call greetings and sign offs

Use case 2

Organisations can now automatically monitor valuable customer feedback, such as mention of a competitor's features













Detailed analytics and sentiment analysis

Automated contact categorization

Theme detection (coming soon)

Supervisor assist (coming soon)

Open and flexible data



H

Amazon Connect

Name

GreetingScript

Name can contain characters A-Z, 0-9, or '.', '-', '_.'. It cannot contain spaces.



AND

Words and phrases

Logic: Any of the following words or phrases were mentioned value during the first value seconds value of the contact, where speaker is agent value seconds value of the contact, where speaker is agent value of the contact.







Detailed analytics and sentiment analysis

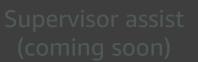


Automated contact categorization



Theme detection (coming soon)





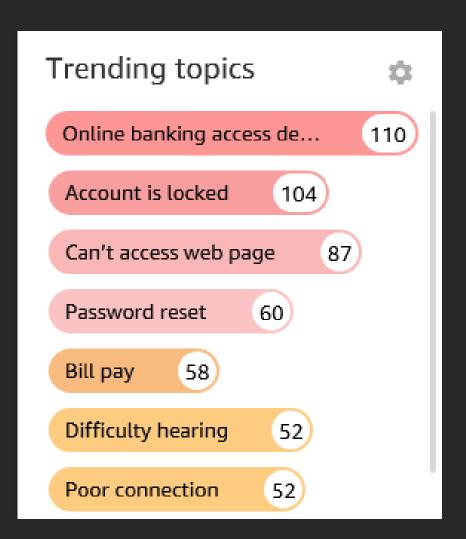


Open and flexible data

Discover emerging issues and their severity with theme detection

- Automated analysis of multiple customer conversations to derive a set of themes that may be causing increased call volumes, dissatisfied customers, and recurring issues
- Themes presented by Contact Lens for Amazon Connect in an easy-to-understand visual format that helps supervisors quickly respond to customer feedback

Coming soon















Detailed analytics and sentiment analysis

Automated contact categorization

Theme detection (coming soon)

Supervisor assist (coming soon)

Open and flexible data

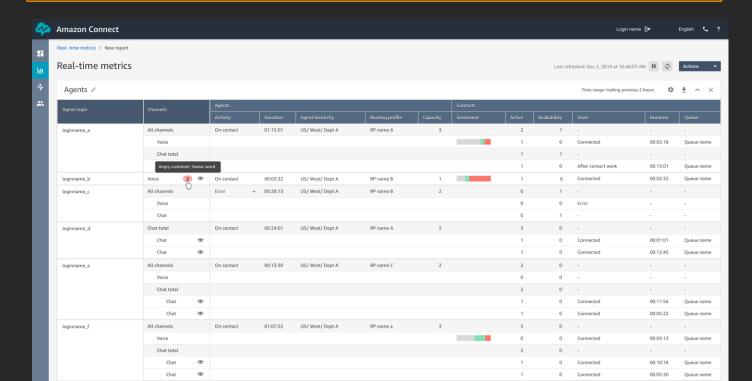
Real-time analytics for supervisors

- Real-time dashboard shows the sentiment progression of live calls in a contact center
- Supervisors can also define custom criteria based on a call's characteristics (such as requests to speak to a manager) that allow them to receive a real-time alert so they can engage and quickly help the customer

Coming soon

Use case

Contact center supervisors can identify and help frustrated customers before they hang up









Detailed analytics and sentiment analysis



Automated contact categorization



Theme detection (coming soon)



Supervisor assist (coming soon)



Open and flexible data

Do more with your data

- Rich metadata for every contact, including call transcripts, sentiment, categorization labels, talk speed, and interruptions
- Metadata available in customers' Amazon S3 buckets in well-defined schemas

Use case 1

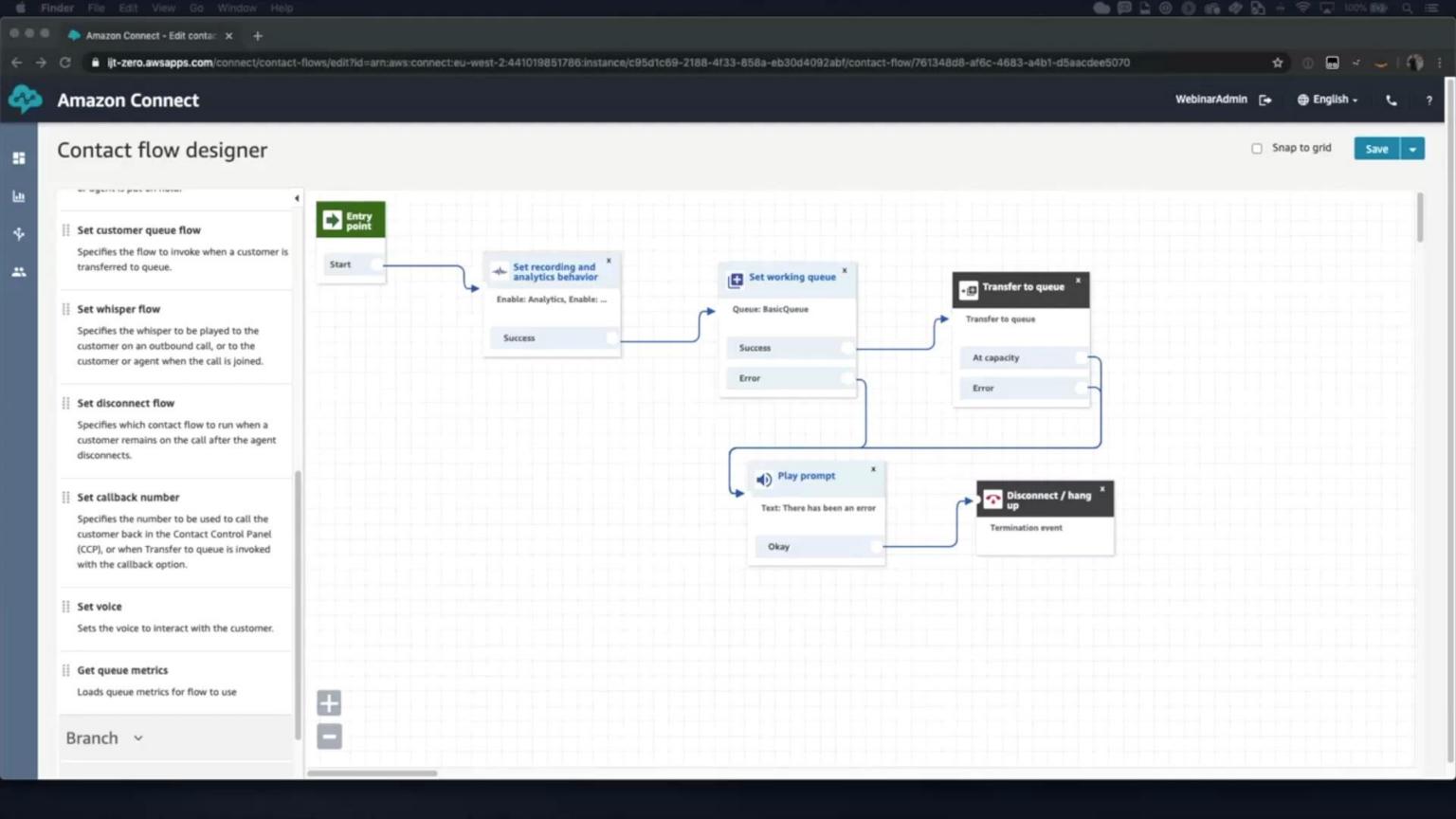
Businesses can use this data in a BI tool along with their CRM data to gain insights into customer engagements

Use case 2

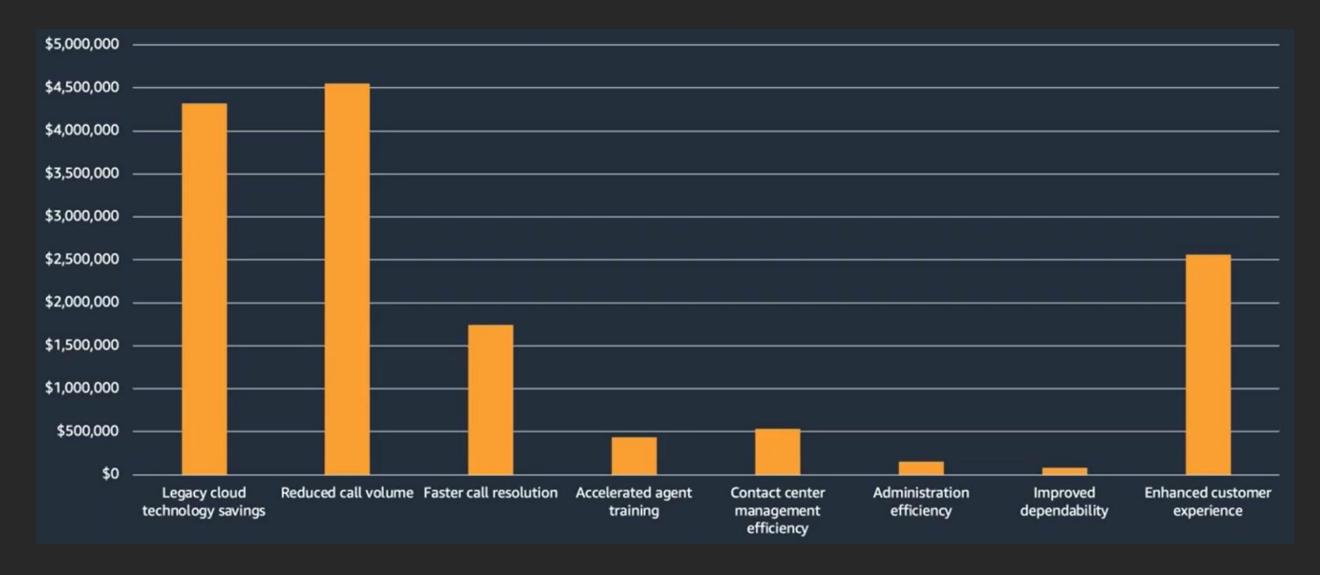
Data science teams can also use this data to create custom ML models that provide unique advantages to your business

Demo





Measuring improved customer experience



A study by Forrester based on actual Amazon Connect customers found a typical large contact centre would realise \$14.4M in benefits over the first three years.

Source: https://pages.awscloud.com/Amazon_Connect_Forrester_TEI_Report.html. Based on 600 seat, 6M mins pa contact centre servicing global operations.

Accolade Healthcare is enhancing their customer experience with Contact Lens for Amazon Connect



"Contact Lens for Amazon Connect exceeds what we could have built by making it easy to programmatically select which calls to automatically transcribe and by offering an enhanced contact search and analysis page to interact with the results. We estimate that with Contact Lens for Amazon Connect we have saved several months of development time that would have been needed to mirror the same interactions and results."

Stephen Murphy
Senior Director, Cloud Engineering, Accolade



Accolade wanted to build a solution that could programmatically select calls to transcribe, analyze, and draw insights from one location





Amazon Connect

Using Contact Lens for Amazon Connect (powered by ML), Accolade integrated automatic speech transcription and enhanced contact search months faster than any other solution

Intuit uses Contact Lens for Amazon Connect to address customer issues in real time



"With Contact Lens for Amazon Connect, we're able to quickly understand our customers' needs and use those insights to create new machine learning models and solutions that best serve our customers."

Ashok Srivastava Chief Data Officer, Intuit



Intuit wanted to optimize its end-to-end live agent experience to ensure the best possible service for its customers





Amazon Connect Using Contact Lens for Amazon Connect (powered by ML), Intuit is automating call categorization to monitor customer experience and regulatory compliance during calls

Thank you!

David Rosengrave www.linkedin.com/in/davidrosengrave/

