

Oracle Digital Assistant overview

- About Oracle Digital Assistant
- Skills
- 3 Digital Assistant
- 4 Channels
- 5 Extending SaaS skills

- **About Oracle Digital Assistant**
- Skills
- 3 Digital Assistant
- 4 Channels
- 5 Extending SaaS skills

Oracle Digital Assistant

A concierge bot that combines individual chatbots into a unified user experience

In their early days, chatbots solved simple business problems

- Customer service automation
- Automation of structured processes
- Self-service

Today, digital assistants are user oriented

- Assist users with various related or unrelated tasks
- Conversations are context aware
- Assistants learn about the user

Oracle Digital Assistant is what users expect from chatbots

Oracle Digital Assistant building blocks



- Individual chatbots
- Reusable
- Conversational Al and ML



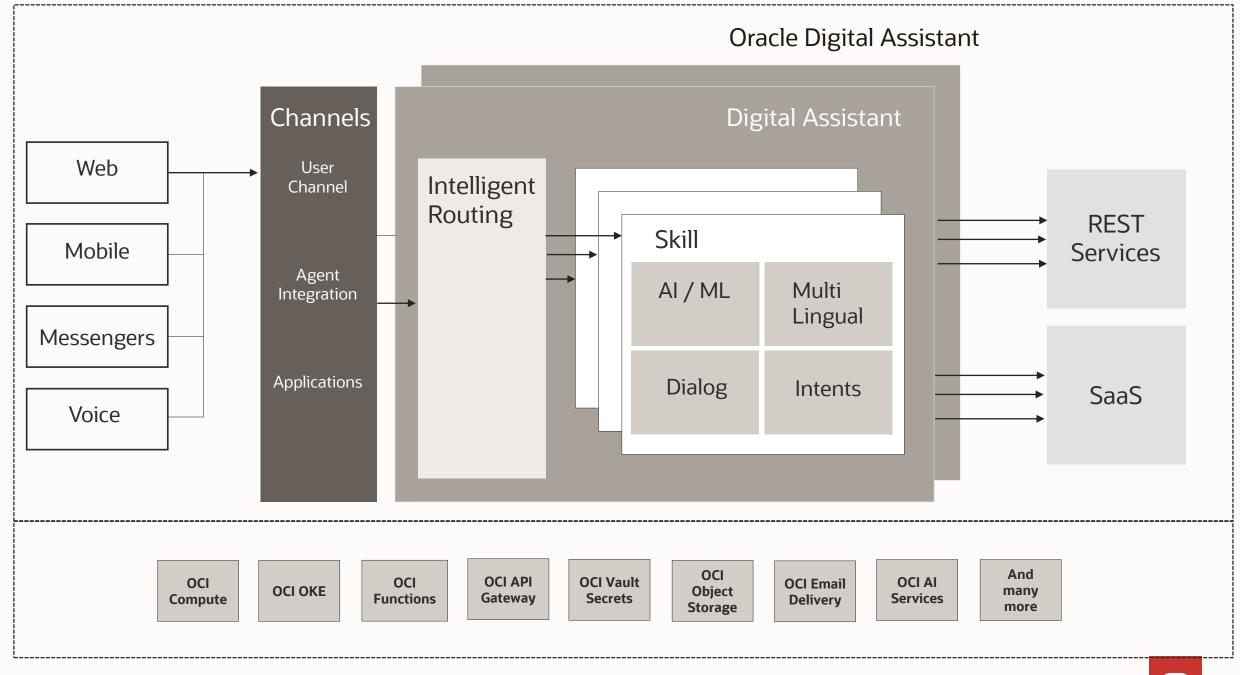
- Routing assistant
- Invokes skills
- Routes user messages



- Messenger connectivity
- Webhook
- Native channels



- Skill store
- Like App Store
 - Contains skills from Oracle SaaS



- About Oracle Digital Assistant
- ² Skills
- 3 Digital Assistant
- 4 Channels
- 5 Extending SaaS skills

Skills

Individual chatbots

- Exposed through Digital Assistant
 - Skill as a conversation module
- Can also be used stand-alone

Use natural language processing (NLP)

- Intent resolution
 - Regular intents
 - Answer intents (FAQ)
- Entity extraction

Conversation flows

- Visual conversation designer
 - Uses components and templates

Skills are intelligent and reusable conversation modules in Oracle Digital Assistant





Skill features (1/5)

Intents (3) order.reg.orderPasta Enable Intent Test Utterances Intent builder General Information Create intents and utterances 2 X Utterance tester Alphabetical order.ans.whatToOrder Description order.asns.termsdelivery Data manufacturing 面 order.reg.orderPasta Crowd sourcing of utterances **Entities** Entities (21) cbe.DeliveryContact **Entities General Information** Examples (59) ^② cbe.DeliveryContact System entities Enter your exam Type Ascending **Custom entities** handles to take delivery information cbe.DeliveryContact Value list, regular expression, dynamic entities, entity lists Configuration list.NamedAddress Composite bag entities Composite Bag Event Handler Entity event handler Query entities CURRENCY + Bag Item SQL Dialog that converts natural language to SQL DATE_TIME STRING

Skill features (2/5)

Visual conversation designer

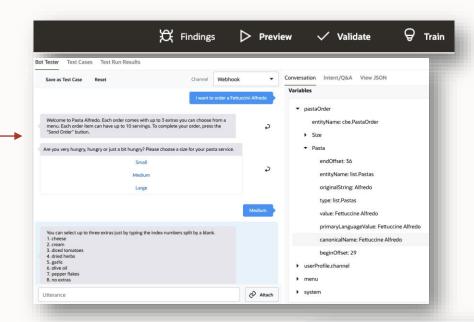
- Built-in components
- Custom components

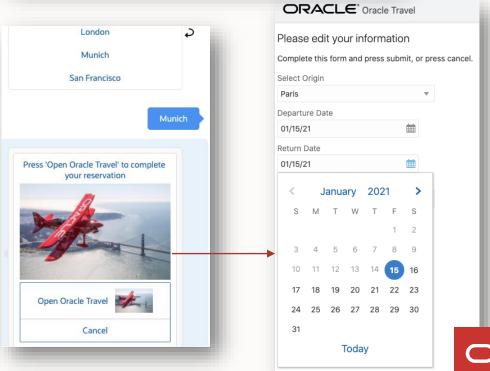
Embedded conversation tester

- Simulates different messengers
- Records test cases

Structured data input

Integrating web forms





Skill features (3/5)

Multi Language support

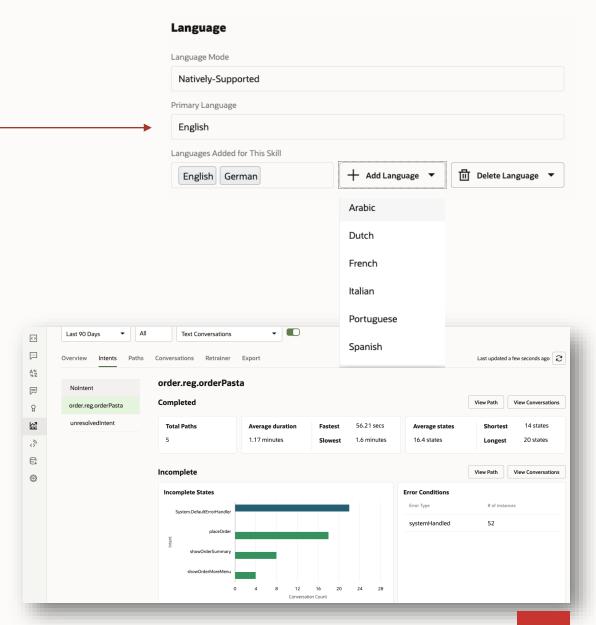
Resource bundles, native NLU, translation service

Insights

- Monitors the runtime performance of your skill
- Provides visual clues about how your customers work within a skill

Built-in OAuth2 security feature

- 2-legged and 3-legged authorization
- Security components
- Allow you to configure all states in a dialog flow to require authorization or individual states



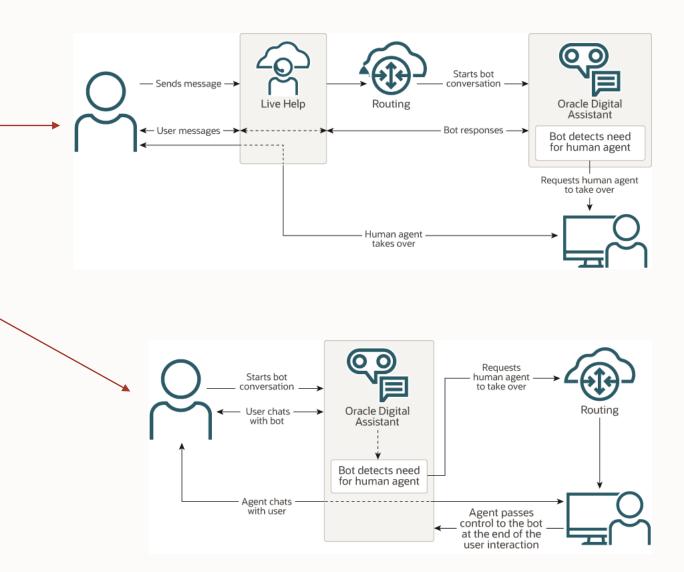
Skill features (4/5)

Human agent integration

- B2B, B2C and others
- Digital assistant as an agent
- Digital assistant to front a call center

Intelligent Advisor integration

Knowledge Search integration





Skill features (5/5)

Knowledge

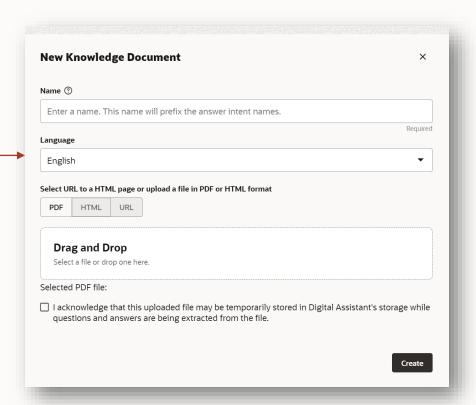
- Automatically import FAQ's from existing knowledge sources
- PDF, HTML and URL
- Intents and utterances are generated

Events

- Digital assistant to start user conversation
- E.g. calendar system triggers bot to remind user of an appointment

Skill lifecycle management

- Versioning
- Cloning



- About Oracle Digital Assistant
- Skills
- **3 Digital Assistant**
- 4 Channels
- 5 Extending SaaS skills

Digital Assistant

A single front end to multiple skills

- Exposes multiple skills to a single bot solution
- Routing assistant

Intelligently routes user messages

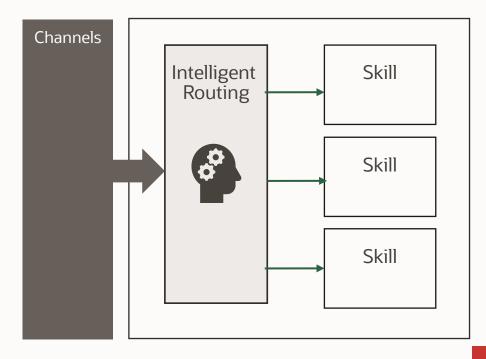
- NLP and rule-based routing
- Configurable
- System intents

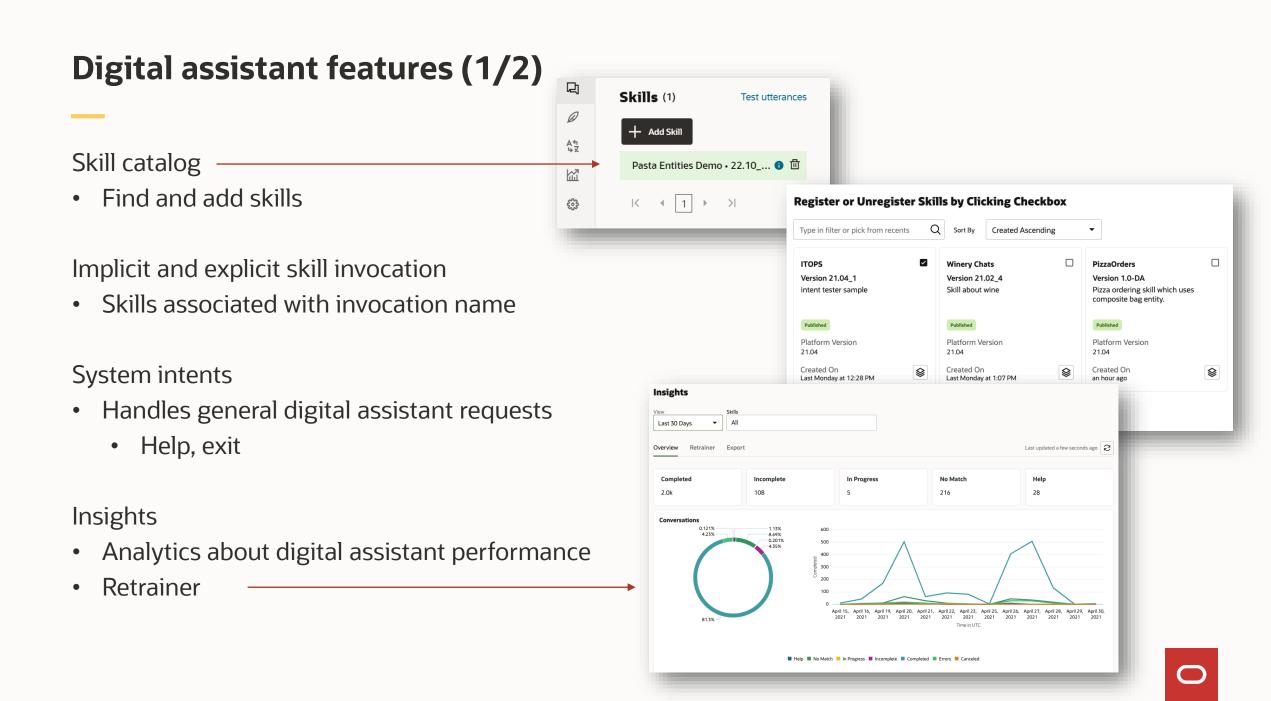
Helps to disambiguate user requests

Auto-generated dialogs

Non-sequitur request handling

Digital assistants orchestrate individual skills into a uniform chatbot solution





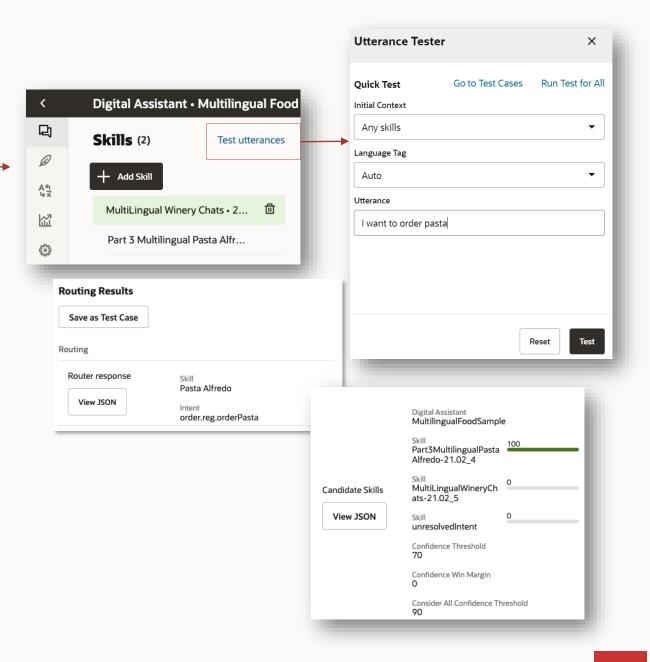
Digital assistant features (2/2)

Utterance tester

- Test how digital assistant resolves user messages to skills and intents
- Create test suites for batch testing
 - Regression testing

Conversation tester

- Test user conversations in digital assistant
 - Simulate different messengers
 - Multi-language testing
 - Non sequitur routing
 - Record test cases for batch testing



- - About Oracle Digital Assistant
 - Skills
 - 3 Digital Assistant
 - 4 Channels
 - 5 Extending SaaS skills

Channels

User channel

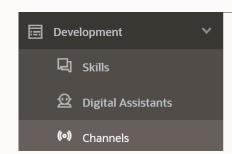
- 3rd party and custom messenger integration
 - Facebook, Microsoft Teams (with group chats and SSO), Slack, SMS
 - Web, iOS, Android

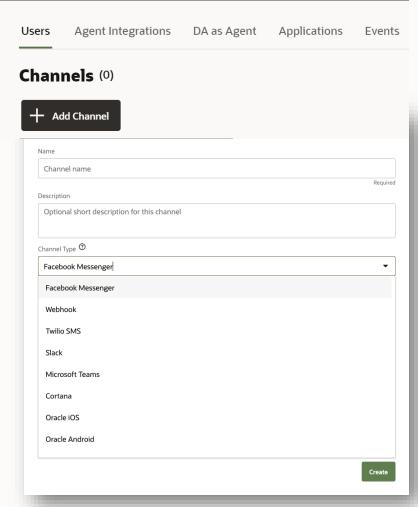
Agent integration

- Live agent transfer
- DA as Agent
 - Agent channels available for B2B and B2C

Applications/Events

Allows applications to trigger a bot-user conversation







About user channels

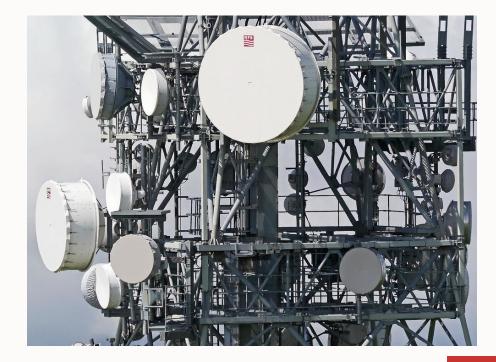
Native channels

- Transform incoming and outgoing messages
- No custom development needed
- Zero-downtime during skill/digital assistant updates

Webhook channel

- Standard callback mechanism
- Custom adapter to connect Messenger for which there is no native channel
- Supported by SDK

User channels are configurable adapters that allow digital assistants to support different types of messengers without code changes





Support for speech

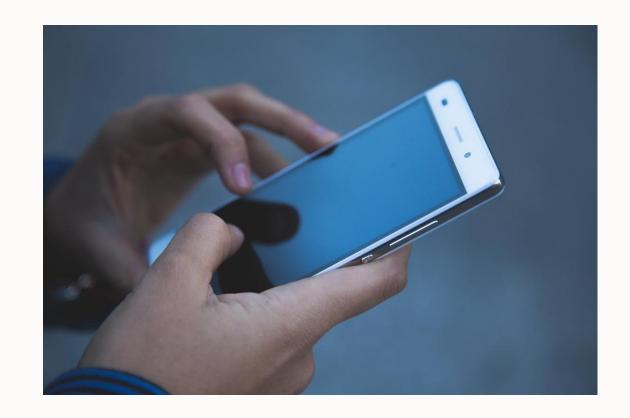
Allows users to talk and listen to a bot

Speech recognition added to Oracle Messengers

- Oracle Android SDK
- Oracle iOS SDK
- Oracle Web SDK

Other options requiring Webhook as a channel

- Alexa, Google Home
- Twilio Voice API



- - About Oracle Digital Assistant
 - Skills
 - 3 Digital Assistant
 - 4 Channels
 - **5** Extending SaaS skills

Extending SaaS skills

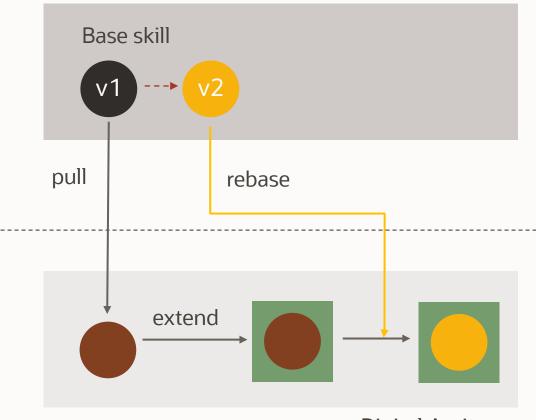
Skill Store

- Displays SaaS skill for download
- Skill that loaded from the Skill Store can be extended
 - Customization to a business
 - Can be rebased to new versions of base skill

What you can customize

- Intents and entities
- Dialog flow
- Resource bundles
- Custom component service
- Skill settings





Digital Assistant

