EXPERIENCE AVAYA

Moscow





# Mастерская "Experience Portal"

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# **Agenda**

# The building blocks

- ➤ Orchestration Designer
- ➤ Pluggable Data Connectors
- ➤ Context Store
- ➤ Conversation Store

#### **Use Cases**

- ➤ Changing the channel messages in queue
- ➤ Conversations fraud alert and survey
- >Preserving contexts web and mobile
- ➤ Mobile application development
  - **≻**Presentation
  - ➤ Context
  - **≻**Integration
- ➤ Integration with Breeze
  - **>** Workflows
  - ➤ Work assignment



#### **Platform**

#### **Avaya Aura Experience Portal**

- Software platform for delivering Omni Channel
   Automated customer experience
- Expanded beyond just a Voice Portal solution

#### **Orchestration Designer**

 Application Development tool for creating Omni Channel Automated Customer Experience Applications and Dialogs

#### **Voice Applications**

**Managed Applications** 

Proactive Outreach Manager

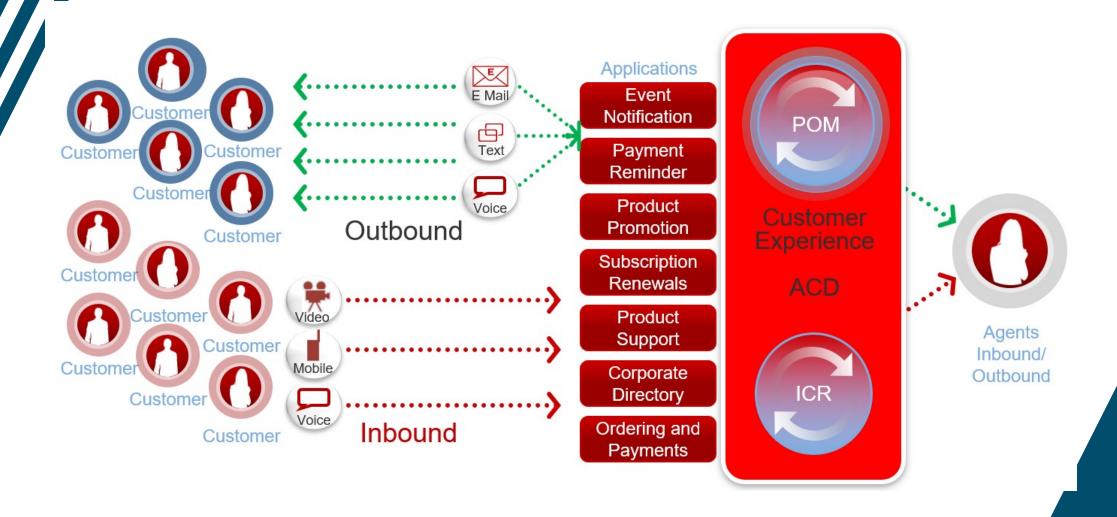
**Intelligent Customer Routing** 

**Business Routing Engine** 





#### **Omni-Channel Interactions**



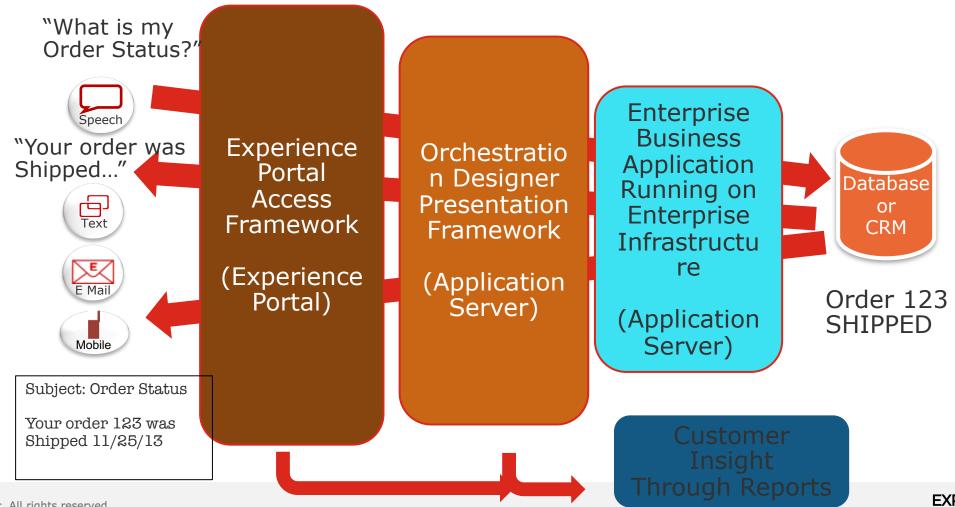


# **Orchestration Designer**

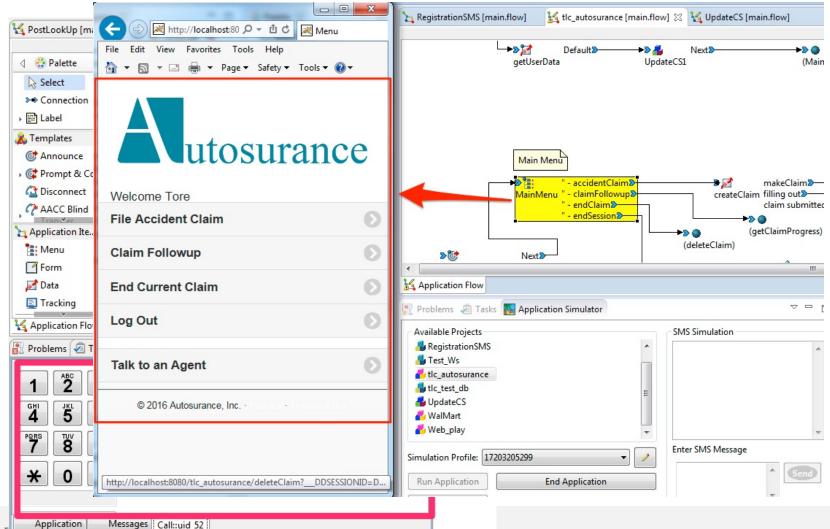
- Orchestration designer (and AAEP) support <u>omni channel</u> communications.
- Enables <u>dialogs</u> via email, SMS, mobile web in addition to Voice and Video
- Enables changing the communication channel from one to another within a conversation
- Enables Omni-Channel: multiple channel interactions at once
- Enables data and contact center access from these channels
- Enables <u>Communication Enabling</u> of mobile applications



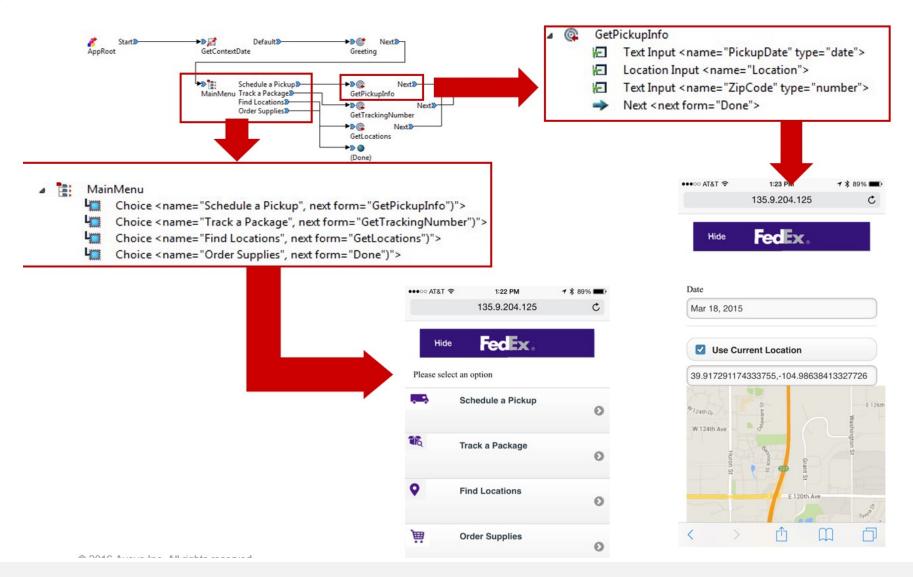
## Multiple presentation layers (voice, email, SMS, Web) One Integration Layer



# Multiple presentation layers (Voice, SMS, Email, Web) One Integration Layer



# **Rendering Mobile Content in HTML 5**





# Orchestration Designer: Pluggable Data Connector Architecture

#### Simplifies integration for:

- Packaging complex web services
- Integrations for systems without web services,
- 3rd party systems

# Orchestration Designer Application MQ Connecto r

#### Examples:

- Database & Web Services
- Connectors to Breeze, Avaya IC, AES, POM, ICR, Context Store
- Connectors to 3rd party CTI or ACDs (i.e. Genesys, Cisco, etc).
- 3rd party backend services (MQ, 3270, SMS, Fax, Email, etc.)

MQ





- AACC Landing Pad Web Service
- AACC Treatments
- Avaya AES
- Avaya IC
- Intelligent Customer Routing (ICR)
- Proactive Outreach Manager (POM)

- Web Services
  - Axis 1.3
  - Axis 2
- Web Services (REST)
- Database
- Configurable Application Variables
- Context Store
- Workflow/Engagement Developer
- AAEP Outbound Call
- Notification (Email, SMS)
- Conversation Store

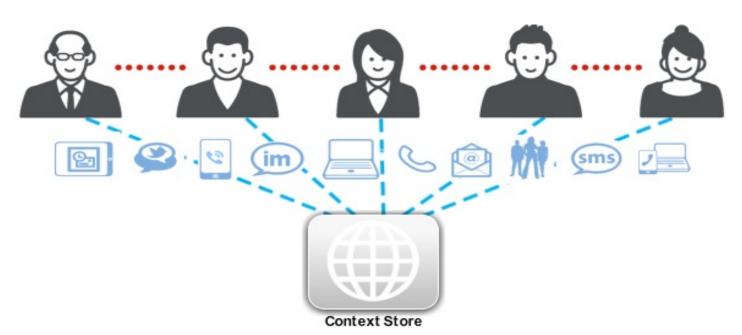


 A Breeze Snap-in that provides accurate, reliable and complete event based contextual information to different systems.

 Allows companies to integrate different components with access to all information so that representatives and other resources can provide fast and accurate service for their customers.

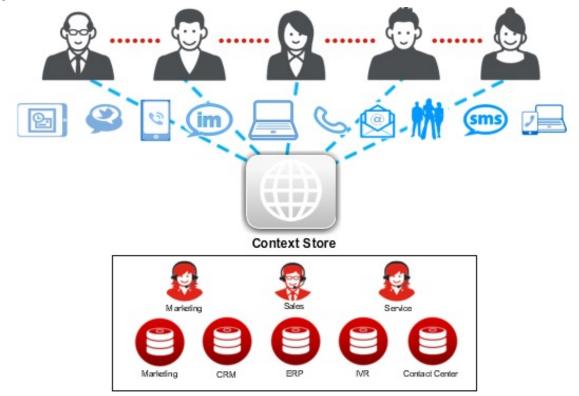


- Avaya Context Store helps create a consistent, personalized omnichannel customer experience
- Continuously share information in real-time across teams, systems, process, and touch points
- Provides centralized repository for data
  - Instant access to date
  - Simplified process for data tracking, collecting, sharing data

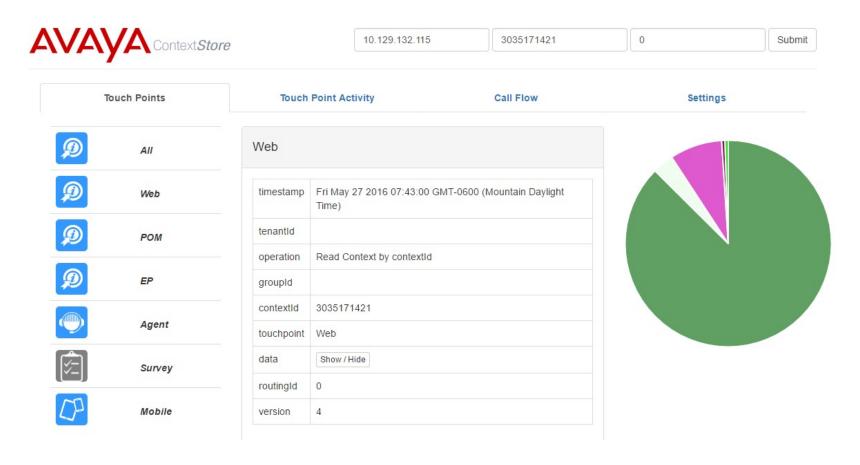


Context Store is driven by requirements to:

- Identify the user and their needs, route to the most able or available resource
- Apply consistent self-service or assisted-service to customers
- Support the use of non-voice media



 Context Store can persist information to an External Data Mart and provide customer journey information

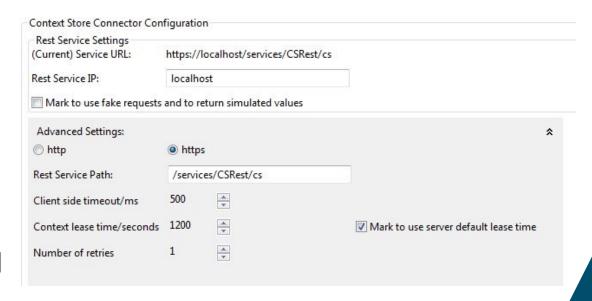




#### **Context Store Access**

- Pluggable Data Connector
- Rest Web Services
- Name Value Pairs
- Common Keys to access
- Design pattern:
  - Create context
  - Pass key with recordsUUI for callsURL parameters for Web
- Distributed in-Memory Data Grid







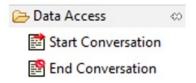
# **Conversation Store for Multi-turn Applications**

- Provides a simple mechanism to maintain application state between turns of the dialog – creates a session on a session-less channel
- Stores application variables in between SMS interactions.
- Conversations have a timeout or lease.
- Implemented as a Pluggable Data Connector you add to your message application.
- Conversations can span modules
  - SMS and Data only modules.



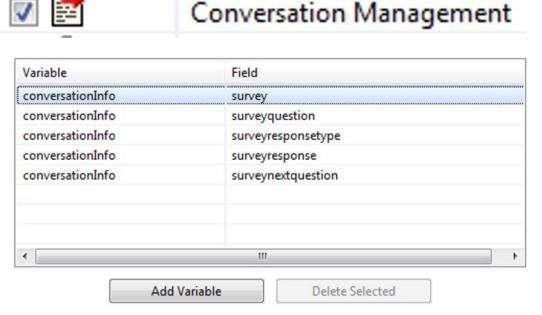
#### **Conversation Store Access**

Pluggable Data Connector Variables to Save/Restore Palette Items



# Configurable Variable





Variables in the conversation are saved once a conversation is started and restored each time the application runs until the conversation is ended or times out. Simple, complex, and complex variable fields are supported as well as collections. Variable values are saved as a string, therefore, variables holding an "object" will not be saved or restored.



# **DATA Projects**



## **Data only projects**

- No channel attached (ie. No voice, message, etc.)
- Enables creation of re-usable modules that work across all channels
- Useful for creating functionality that is independent of channels or is common for all channels



#### **USE CASE: CHANGING THE CHANNEL**

Collecting Information in other channels:

"In order to complete your account information, we need your email address"

Other channels for faster or automated service:

"The estimated wait time is more than 15 minutes – would you like to continue with chat instead?"



#### **Collect Email Address**

Collect difficult information to collect (voice) using another channel (SMS)

Voice: "In order to complete your account information we need your email address. Can we send you a text message ....."

Voice: "A message has been sent to your smartphone, please reply with your email address. I'll wait for your reply ....."

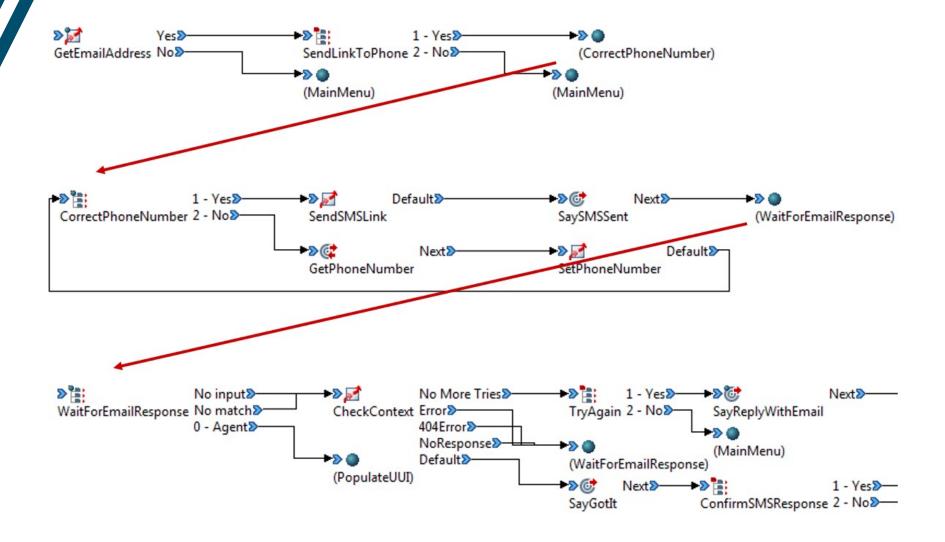
▶ SMS:

Msg from Gelson
Witte: Please reply
with your email
address so we can
complete your
account information

jhaich@gmail.com

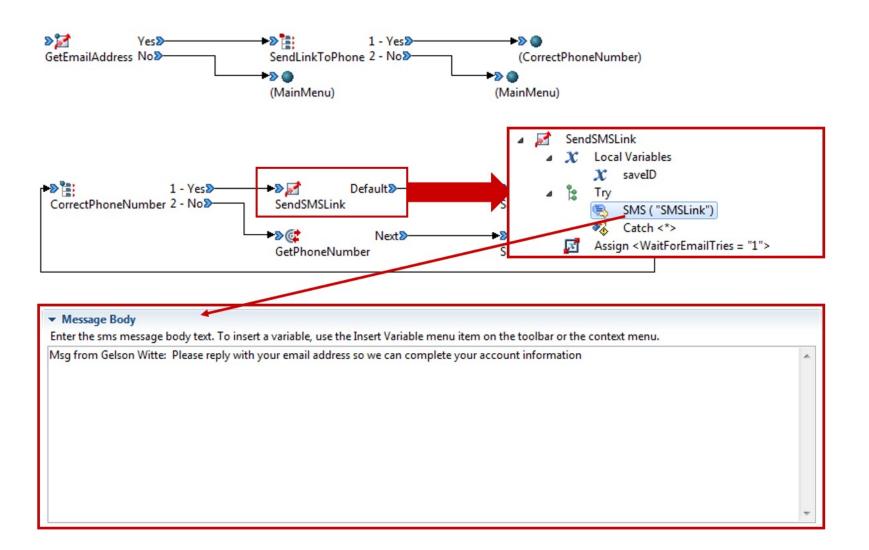
▶ Voice: "Got it. jhaich@gmail.com, is that right? ....."

# **Collecting Email Address on Voice Call**



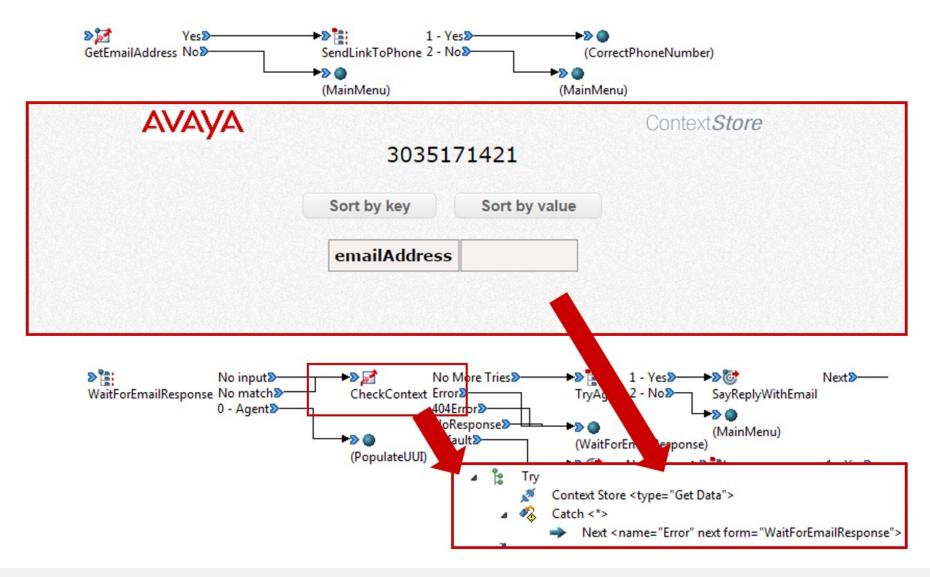


#### **Notification Connector - Send SMS**



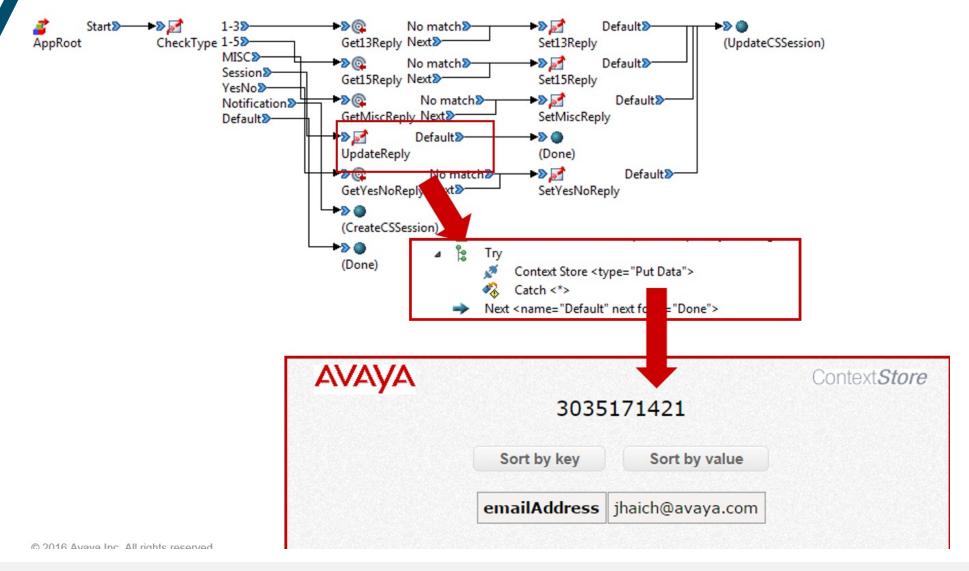


## **ContextStore Connector – Get Email Address**





# **SMS Application – Get SMS Response**





# **Long Queue Time – Offer Other Options**

 If queue time exceeds 15 minutes offer chat instead. Chat agents can handle several contacts at a time typically.

Voice: "The estimated wait time is more than 15 minutes would you

like to continue with chat instead ....."

Voice: "A link has been sent to your smartphone, please click on

that link to continue....."

SMS:

http://
abmi.conversive.com/
genavaya/
TechChat.html?
name=Jon&location=
Mangelsons&amount=
\$948.10&reason=fraud
&ci=3035171421&buh
andle=jhaich&popup=t
rue

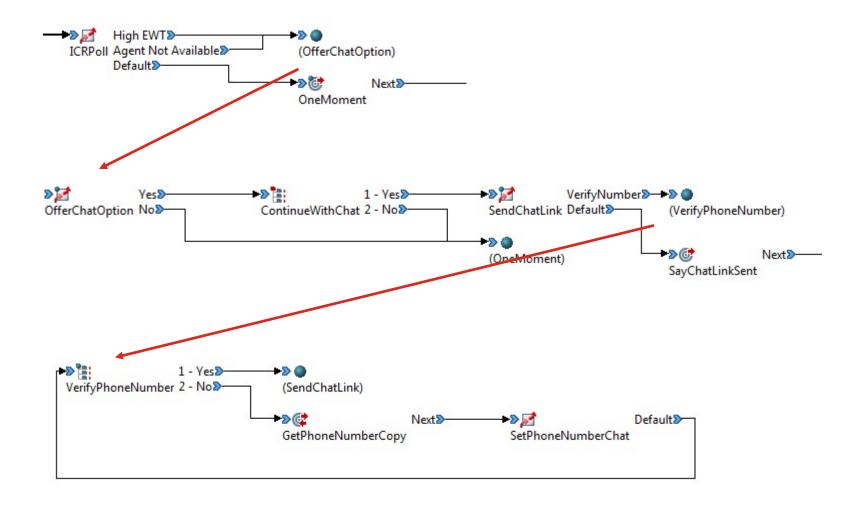
Tech Support: Hi! I'm Virginia, a Virtual Agent designed to answer your questions.

Tech Support: Hi Jon, I see you are having a problem with Mangelsons to the amount of \$948.10. Let me bring in a CSR to help you.

Chat Agent: "How can I help you?"

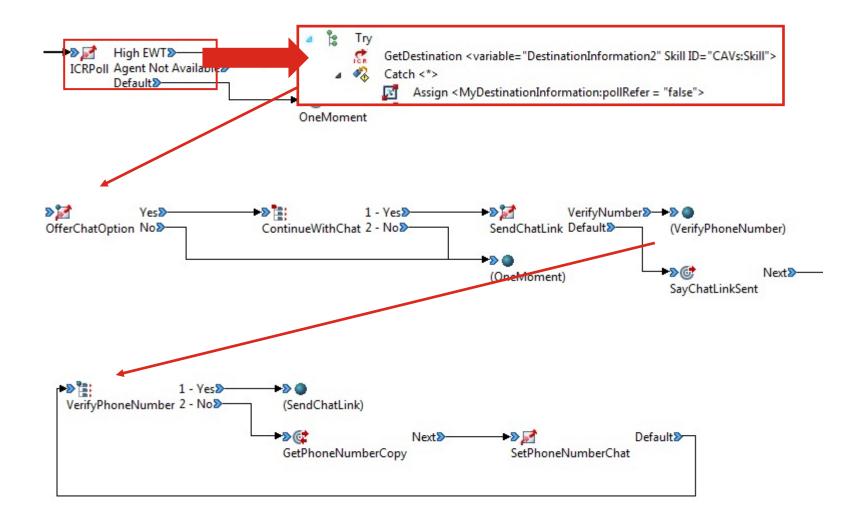


# **Long Queue Time – Offer Other Options**

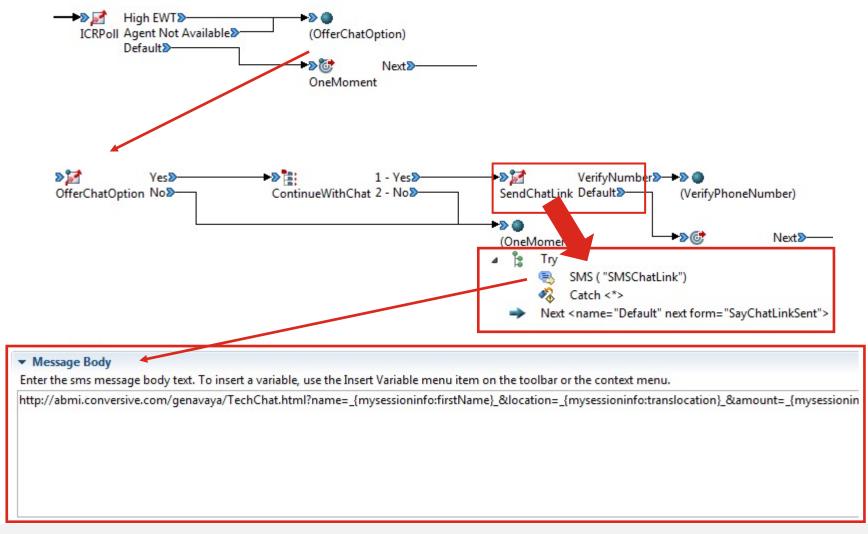




#### ICR Connector - Get Estimated Wait Time



#### **Notification Connector – Send SMS**



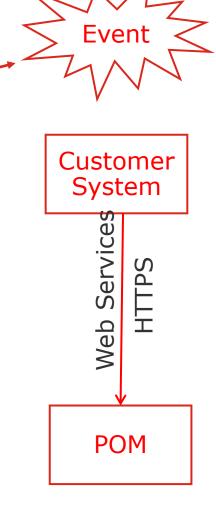
# **USE CASE: FRAUD ALERT Multi-channel Alert**

- □ Based on an external input fraud detected an record is inserted into a POM campaign. The campaign then runs this through a strategy SMS, Email, Voice
- ☐ This results in a 2-way SMS dialog, voice dialog or email dialog.
- ☐ Based on results, this escalates to Voice.
- ☐ Components of the Solution
  - Context store
  - Proactive Outreach Manager
  - Orchestration Designer
  - Multiple Channels

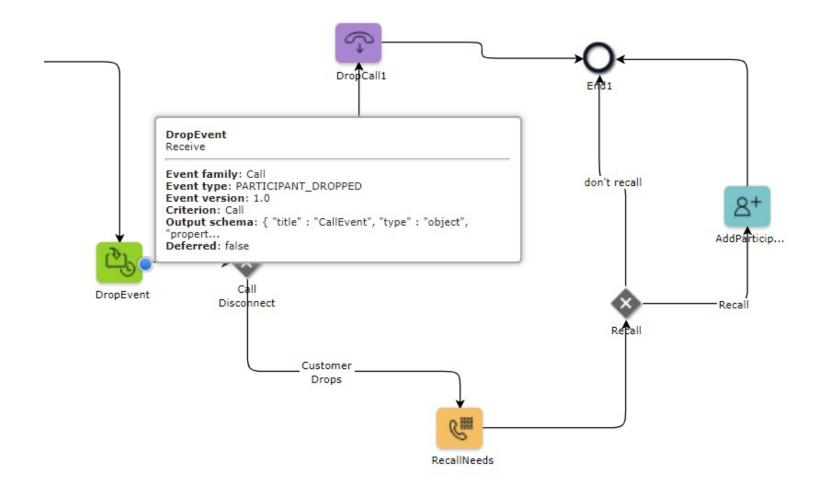


# **Event Driven Notification – POM Web Services**

- Infinite Campaign Running in POM
- Customer Fraud Alert System Flags Charge
- Customer System Adds
   Information to Contact List using
   POM Web Service
- Customer System Add Contact to Running POM Campaign Using POM Web Service
- POM Campaign Contacts
   Customer in Preferred Channel

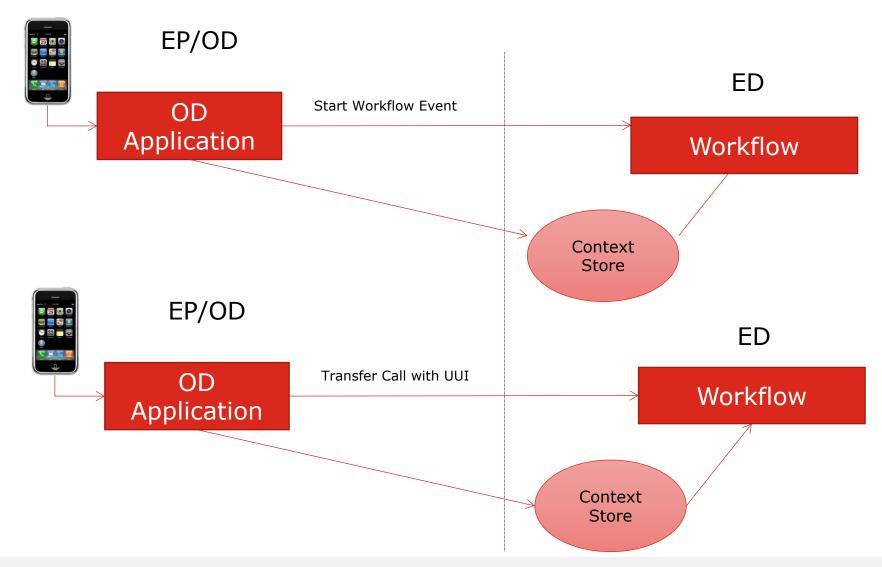


# Integration with Engagement Designer - Workflows





# **EP/OD First.**



# **EP/OD First –Start workflow**

- Call comes into EP and OD answers the call collects data and decides to start a workflow to continue the transaction
- Context can be passed 2 ways
  - All context is in the event sent to ED/Workflow, OD supports 8 string parameters that can be named as appropriate
  - Context is in the context store and the context id is passed in a single event parameter.

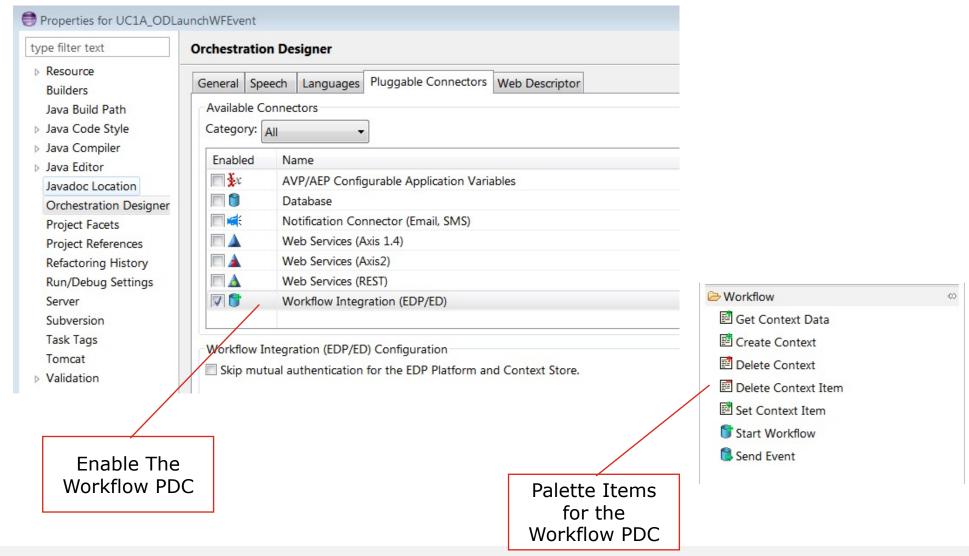


#### **Workflow PDC**

- To support the various integrations the pluggable data connector Workflow (PDC) is available OD.
  - Operations for context store access
  - An operation to start a workflow
  - An operation to send an event to a workflow
  - Automatically adds the avayaContextId to the application
  - At runtime, automatically stores the context id from either UUI or request parameter into the avayaContextId variable.



## **Workflow PDC UI**



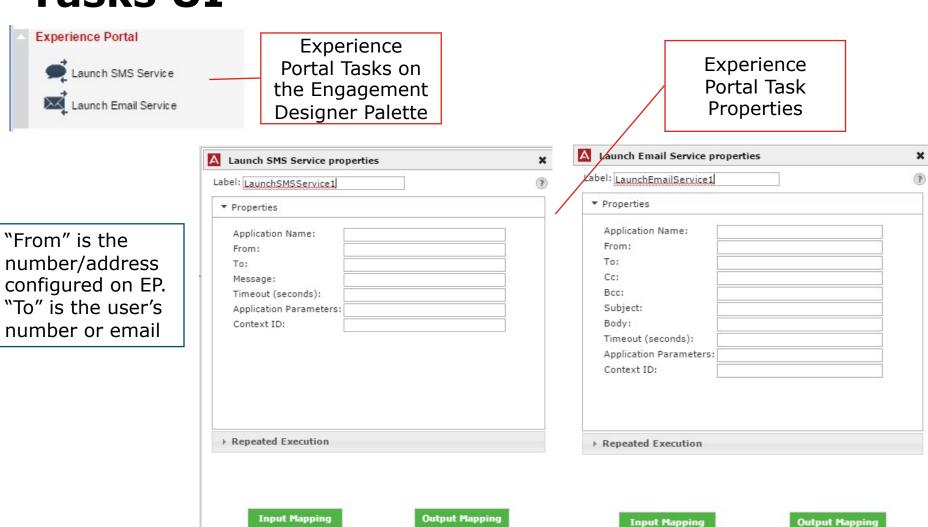


#### **EP Tasks**

- To support the various integrations two tasks have been added to the Engagement Designer Palette under Experience Portal menu group.
  - Launch SMS Service:
    - Task to start an OD SMS application
  - Launch Email Service:
    - Task to start an OD Email application



### **EP Tasks UI**



Cancel

ОК



Cancel

### **Conclusion**



- Avaya provides a platform for Omni-Channel Interactions
- Orchestration Designer provides a framework for managing user dialogs across these channels
- Orchestration Designer provides a mechanism to "change the channel" of communication
- Context Store provides a powerful mechanism to collect and propagate context about the contact and interaction
- This solution can "Communication Enable" Mobile applications
- Integration with Breeze enables seamless Self and Assisted solutions

