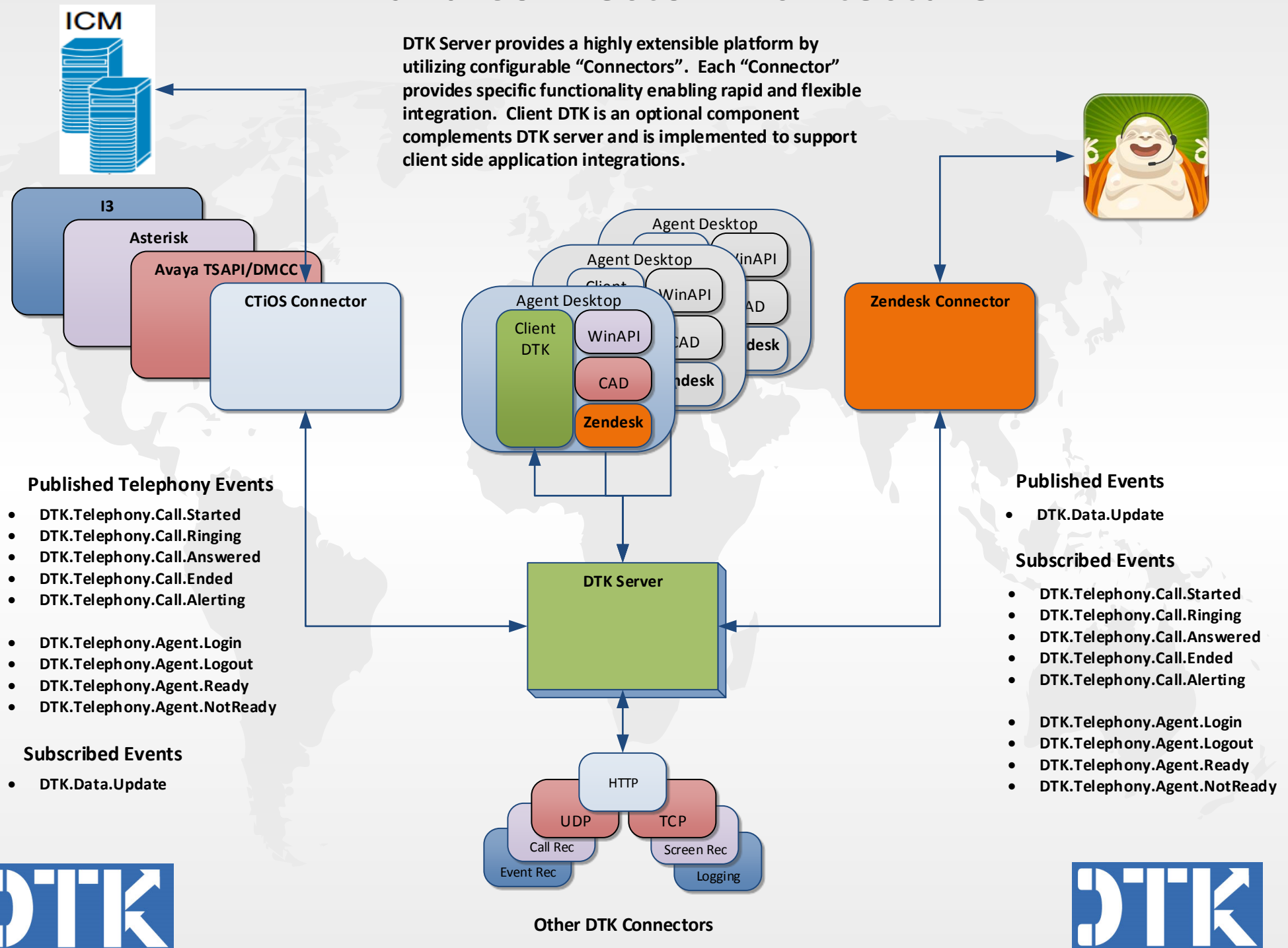


DTK and Connector Architecture

DTK Server provides a highly extensible platform by utilizing configurable “Connectors”. Each “Connector” provides specific functionality enabling rapid and flexible integration. Client DTK is an optional component complements DTK server and is implemented to support client side application integrations.



DTK Architecture

Technological changes brought about by product updates, vendor replacement, as well as mergers and acquisitions are costly and unavoidable. DTK has been designed from the ground up to be a powerful, flexible, and cost effective integration solution that minimizes time, effort, and expense of adapting to new or different technologies.

At the heart of DTK is a core that:

- **Optimizes performance by employing an Event-centric architecture**
- **Delivers tremendous flexibility and adaptability through configurable “Connectors”**
- **Utilizes a Service Oriented Architecture**
- **Employs and facilitates agile integration strategies and practices**
- **Provides centralized logging and solution metrics**
- **Minimizes integration time and expenses**
- **Leverages decoupled architecture enabling “Connector” reusability**

DTK Connectors are the “eyes and ears” of the DTK and are responsible for:

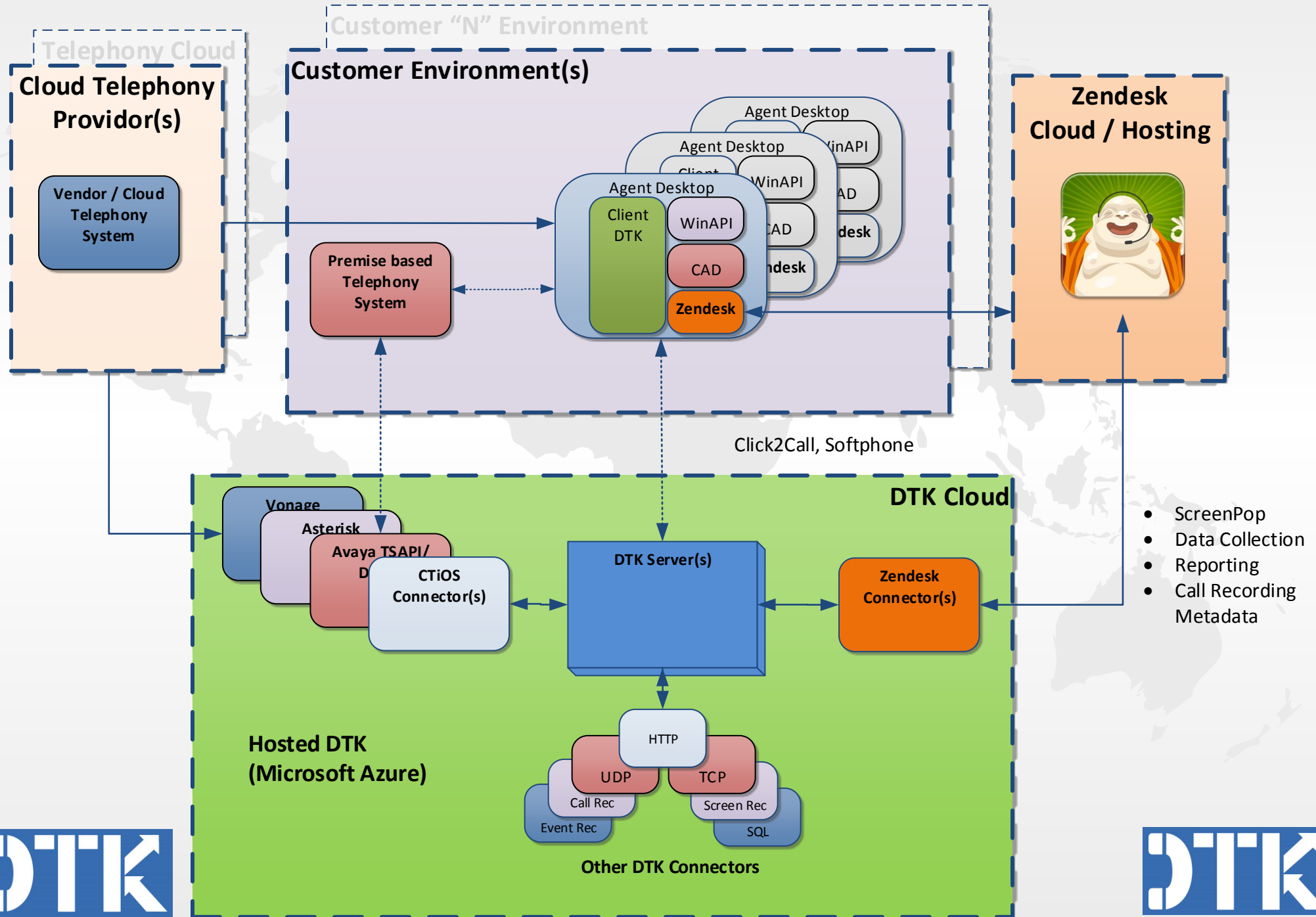
- **Producing and consuming events for specific products and applications**
- **Filtering source events to minimize system activities**
- **Providing and requesting services specific to applications**
- **Translating data between sources**
- **Encapsulation of unique system functionality**
- **Consistent event structure across various vendor telephony platforms (Cisco, Avaya, Asterisk etc.).**

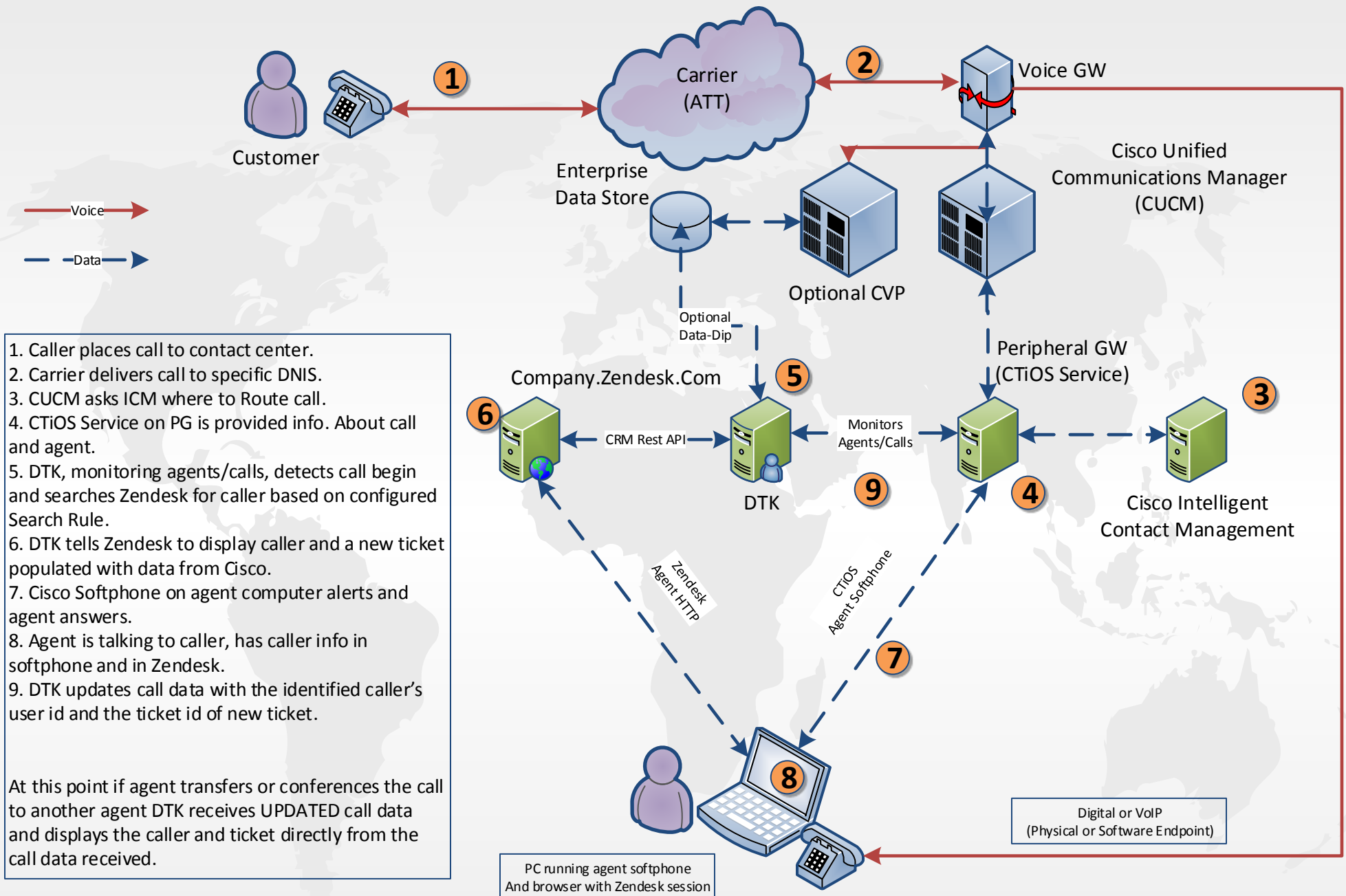
“Adapt or perish, now as ever, is nature's inexorable imperative.” - H. G. Wells

“It is not the strongest of the species that survives, nor the most intelligent that survives. It is the one that is the most adaptable to change.” - Charles Darwin



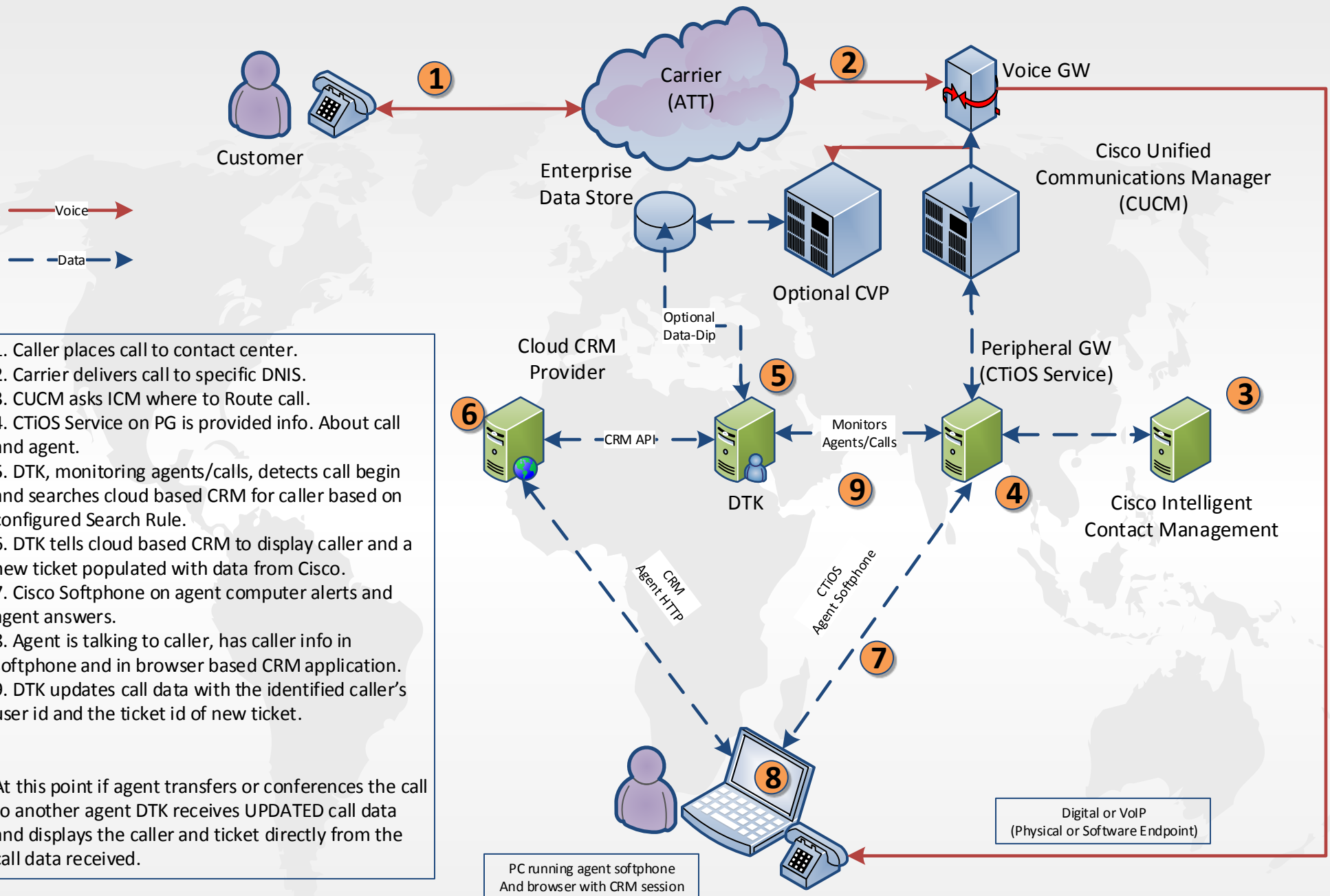
DTK Hosted Environment





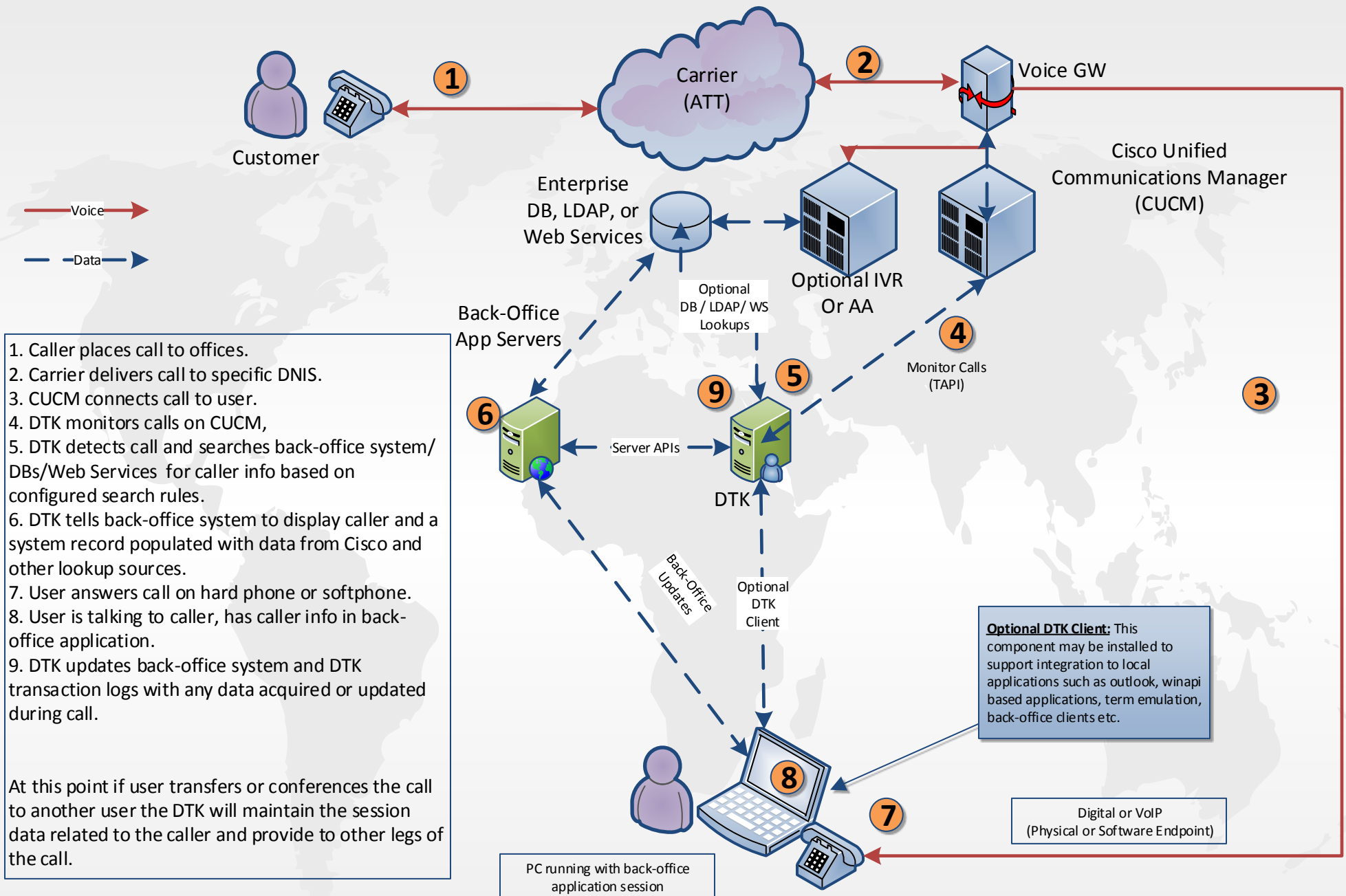
Physical Cisco UCCE / CTiOS





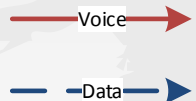
Physical Cisco UCCE / CTiOS





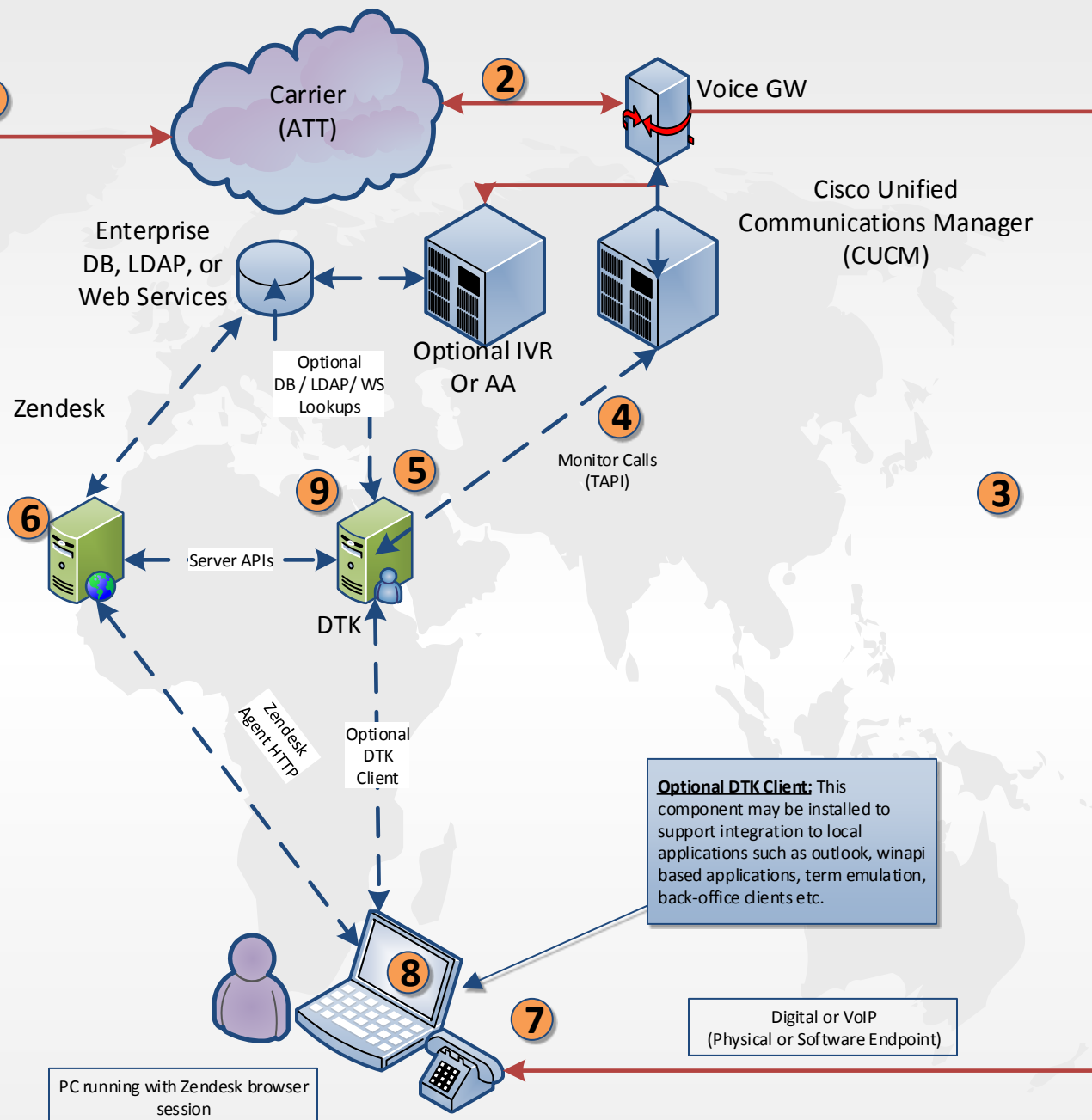
Physical CUCM





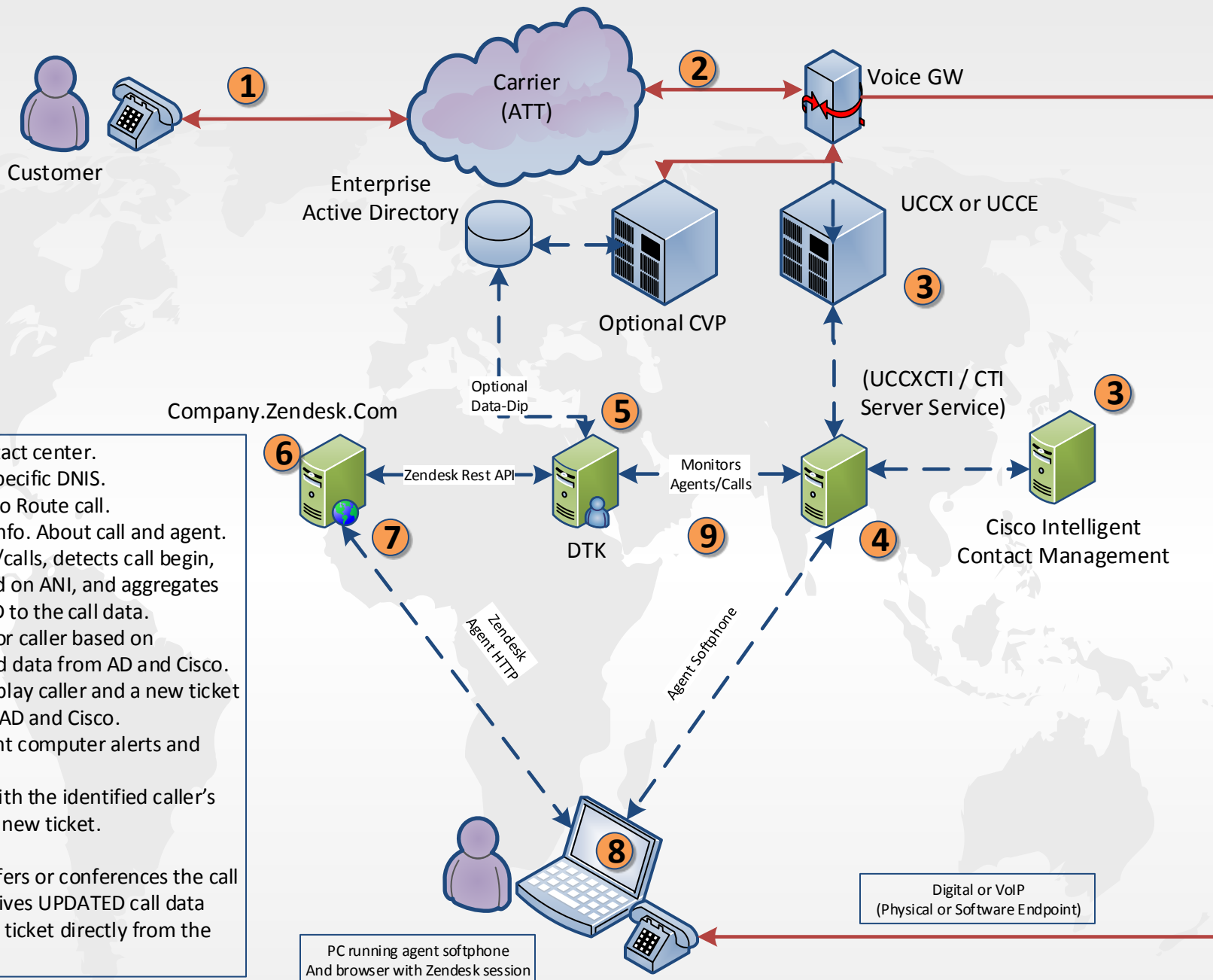
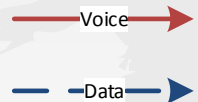
1. Caller places call to offices.
2. Carrier delivers call to specific DNIS.
3. CUCM connects call to user.
4. DTK monitors calls on CUCM,
5. DTK detects call and searches back-office system/ DBs/Web Services for caller info based on configured search rules.
6. DTK tells Zendesk to display caller and a ticket populated with data from Cisco and other lookup sources.
7. User answers call on hard phone or softphone.
8. User is talking to caller, has caller info in Zendesk browser session.
9. DTK updates back-office system and DTK transaction logs with any data acquired or updated during call.

At this point if user transfers or conferences the call to another user the DTK will maintain the session data related to the caller and provide to other legs of the call.



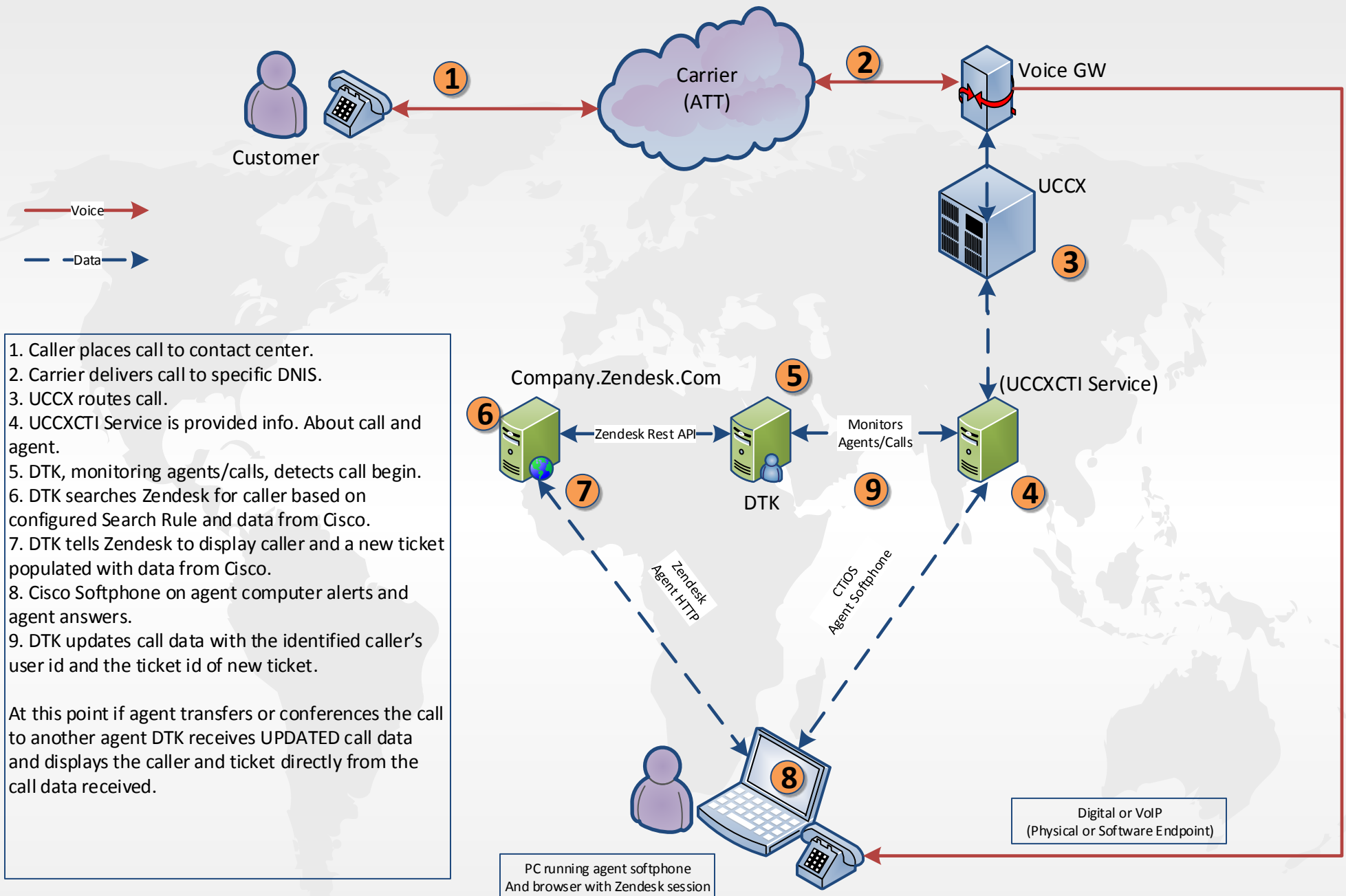
Physical CUCM





Physical Cisco GED 188

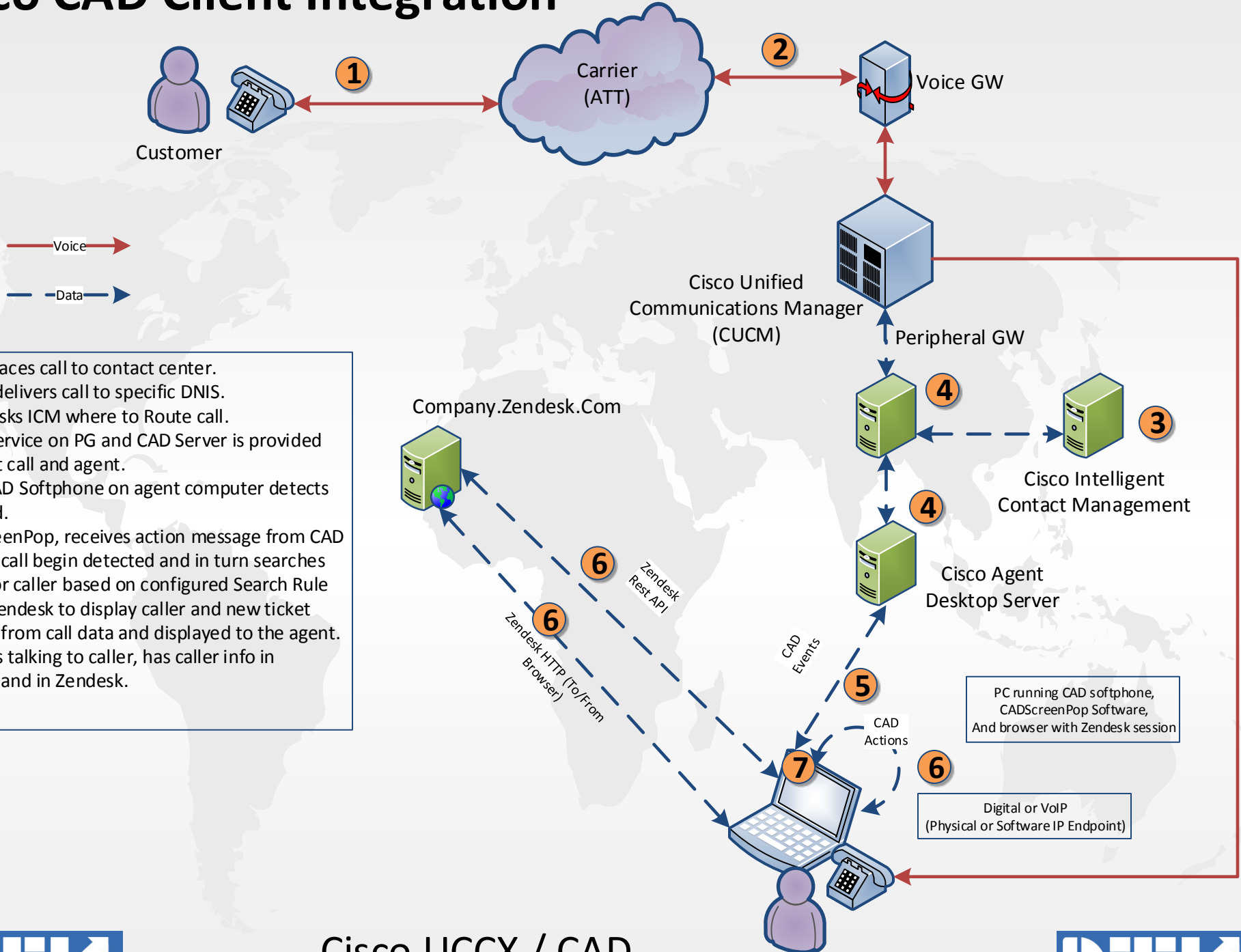




Physical Cisco UCCXCTI



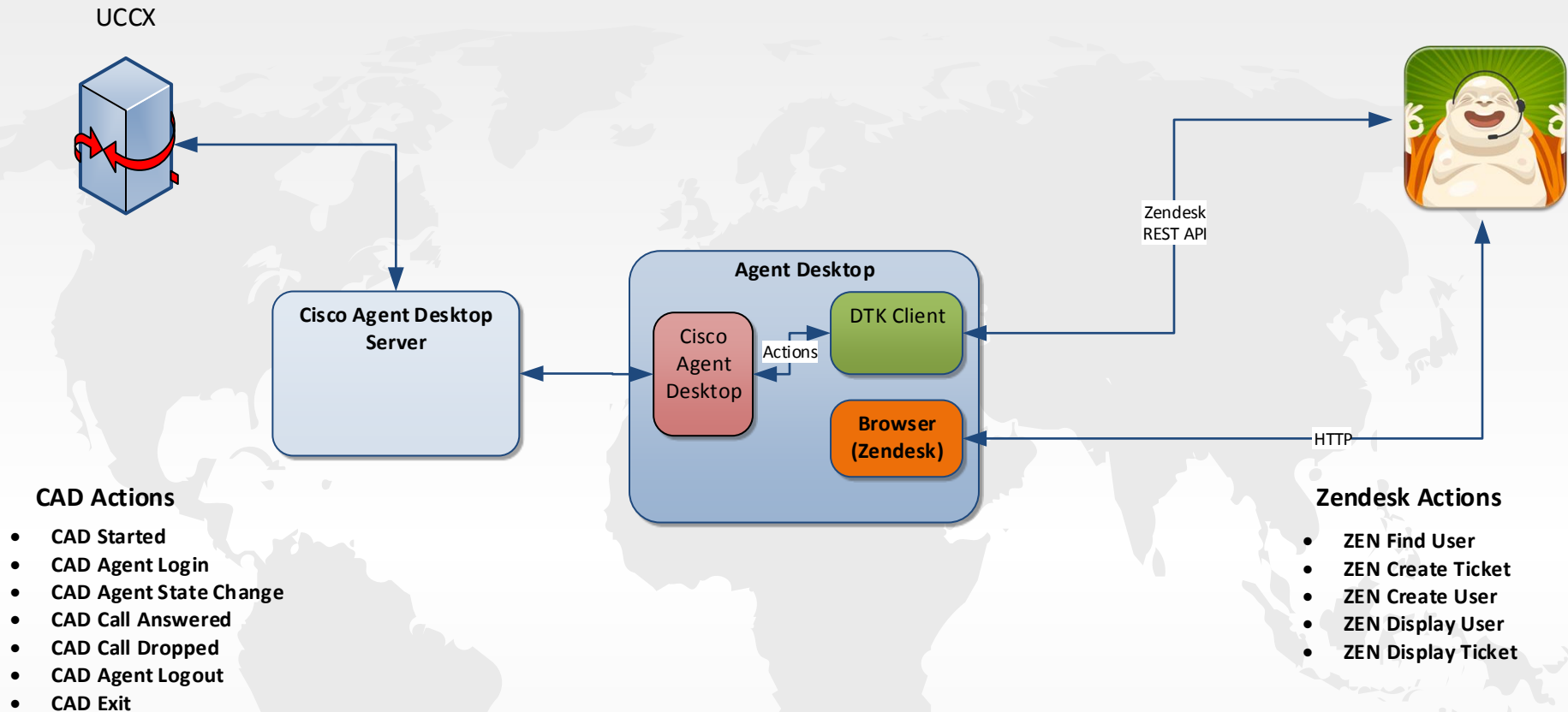
Cisco CAD Client Integration



Cisco UCCX / CAD
Client Deployment Model



Cisco CAD Client Integration



CAD Action => Application Function

CAD Started => Start CADScreenPop
CAD Agent Logon => ZEN Find User
CAD Agent Ready => ZEN Find User (if needed)
CAD Agent Not Ready => ZEN Find User (if needed)
CAD Call Answered => ZEN Find User, ZEN Create Ticket, ZEN Display User, Zen Display Ticket
CAD Call Dropped => Clear CADScreenPop call state
CAD Agent Logout => Clear CADScreenPop agent state
CAD Exit => Shutdown CADScreenPop



Cisco UCCX / CAD
Client Deployment Model

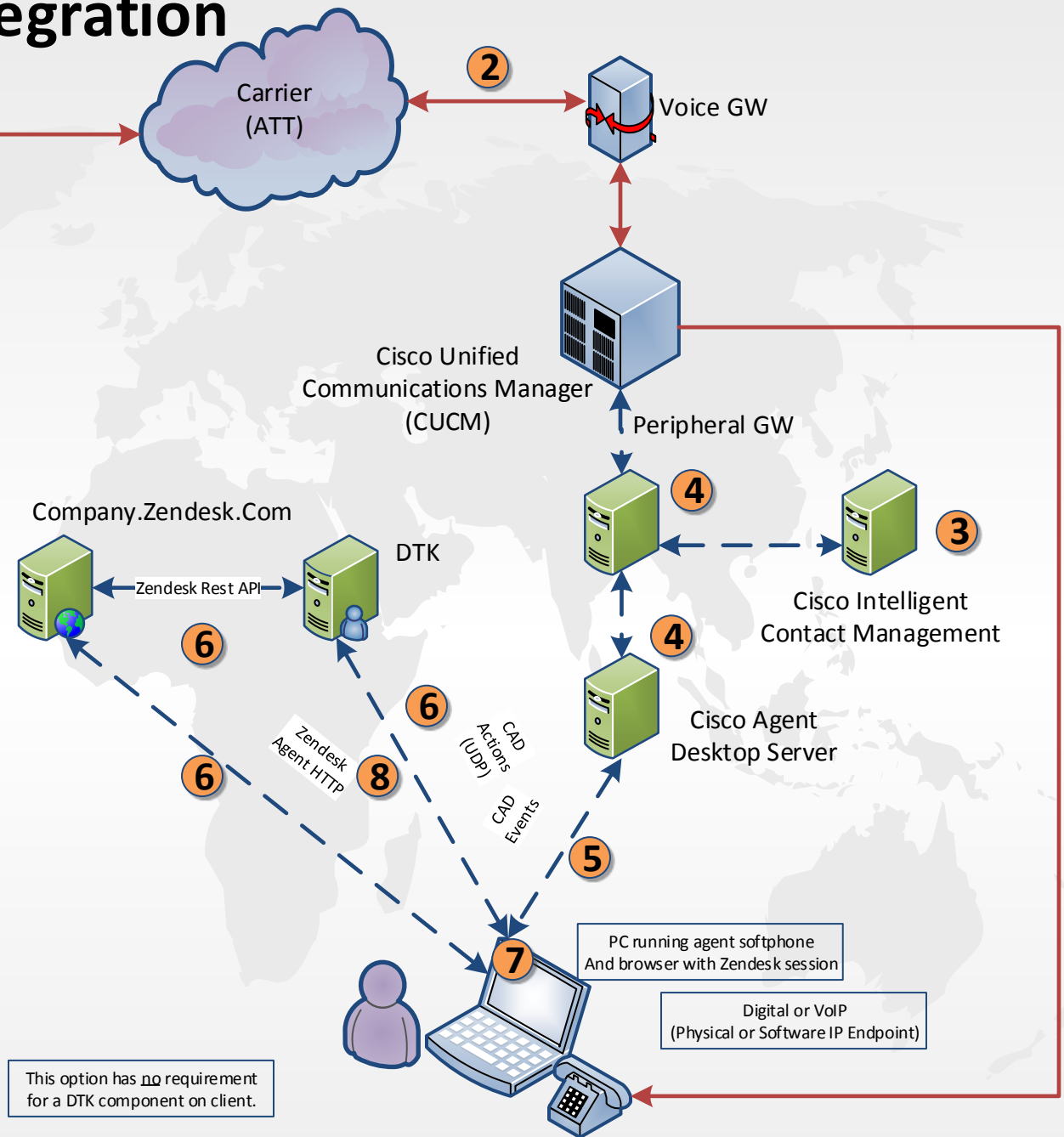


Cisco CAD Server Integration



1. Caller places call to contact center.
2. Carrier delivers call to specific DNIS.
3. CUCM asks ICM where to Route call.
4. CTiOS Service on PG and CAD Server is provided info. about call and agent.
5. Cisco Softphone on agent computer detects call started.
6. DTK, receives message from CAD client that call begin detected and searches Zendesk for caller based on configured Search Rule and tells Zendesk to display caller and new ticket populated from call data to agent.
7. Agent is talking to caller, has caller info in softphone and in Zendesk.
8. DTK updates call data with the identified caller's user id and the ticket id of new ticket.

At this point if agent transfers or conferences the call to another agent DTK receives UPDATED call data and displays the caller and ticket directly from the call data received.



Cisco UCCX / CAD
Server Deployment Model

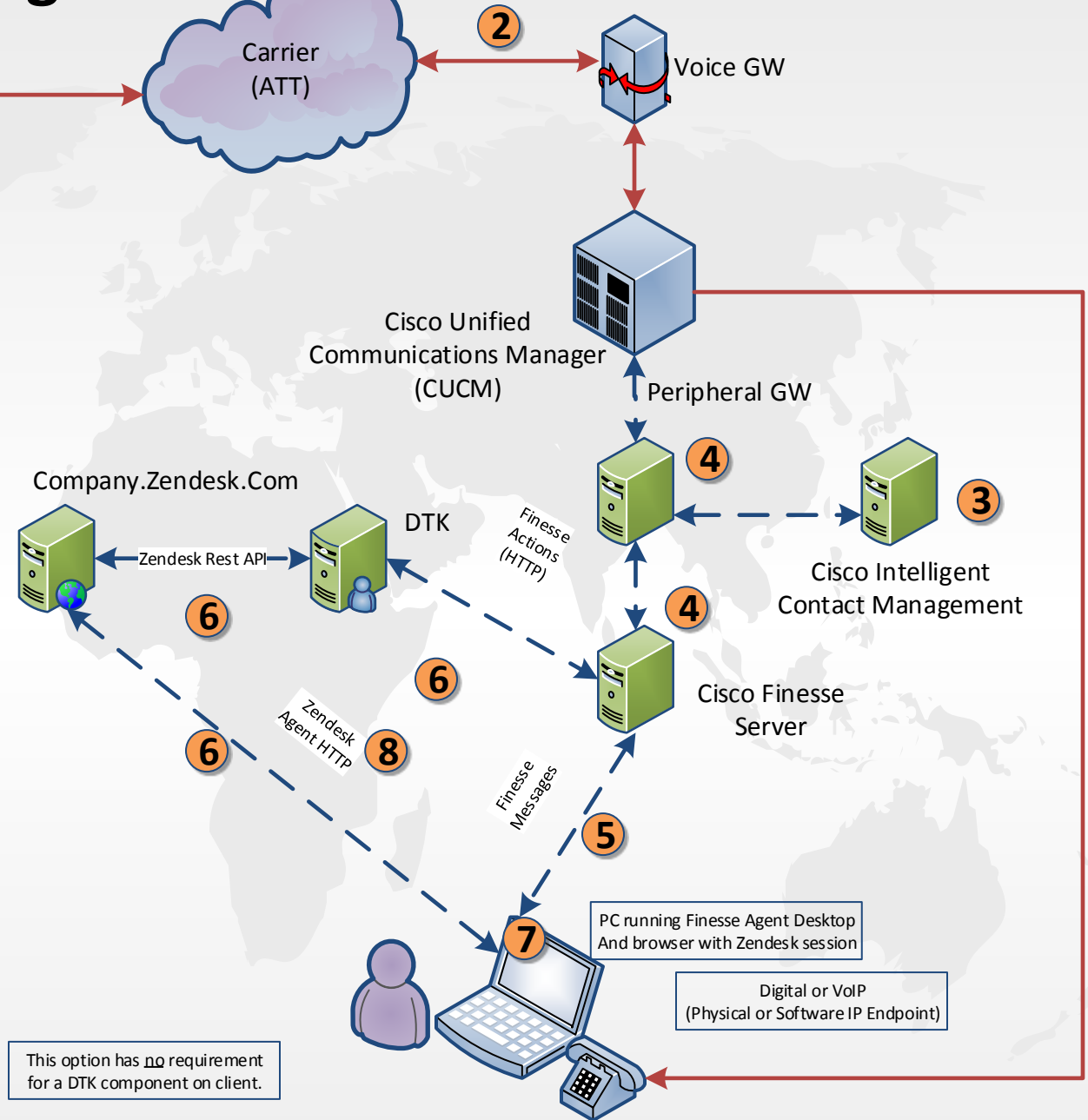


Cisco CAD Server Integration



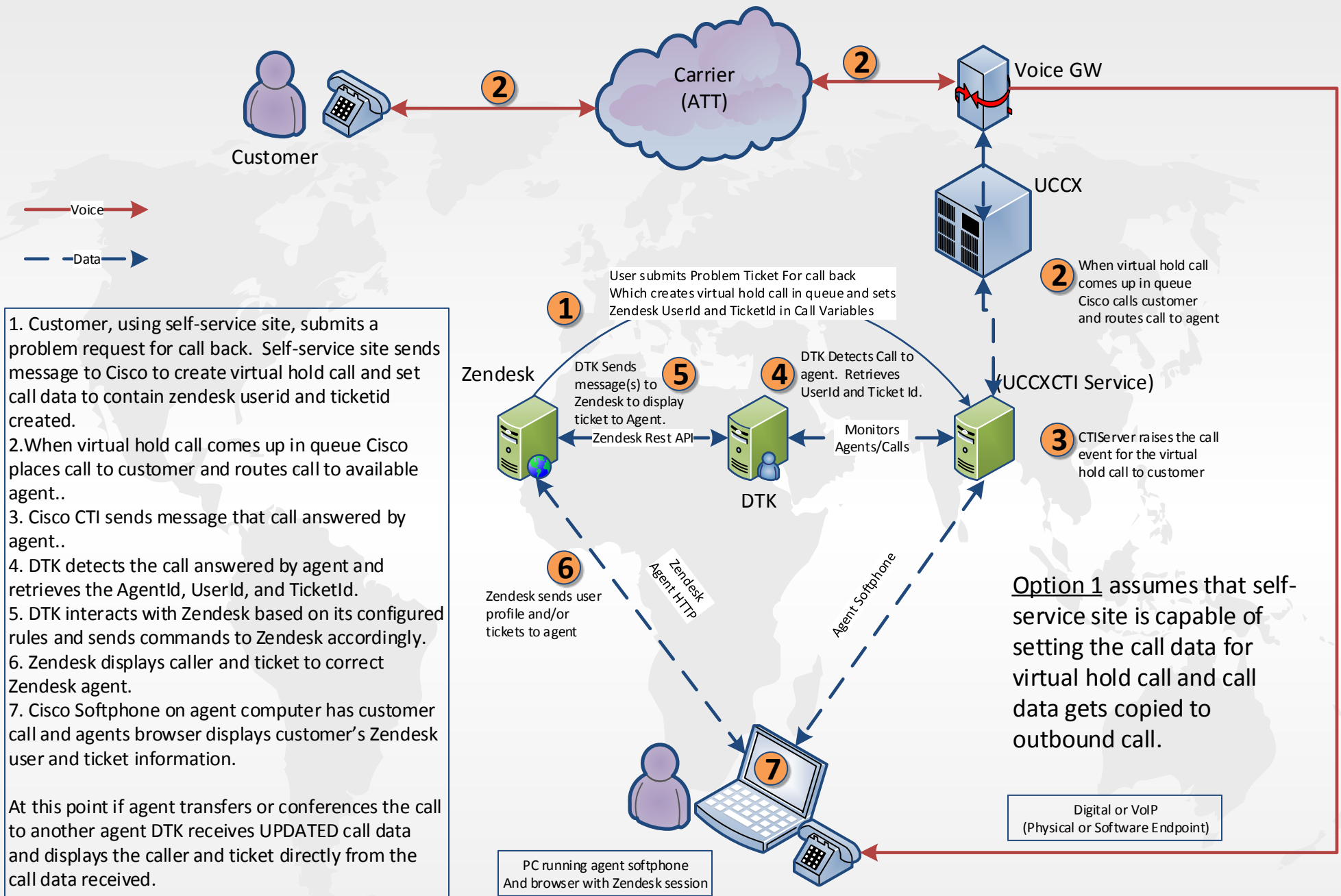
1. Caller places call to contact center.
2. Carrier delivers call to specific DNIS.
3. CUCM asks ICM where to Route call.
4. CTiOS Service on PG and Server Server is provided info. about call and agent.
5. Cisco Finesse Agent Desktop on agent computer detects call started.
6. DTK, receives message from Finesse that call begin detected and searches Zendesk for caller based on configured Search Rule and tells Zendesk to display caller and new ticket populated from call data to agent.
7. Agent is talking to caller, has caller info in Finesse phone gadget and in Zendesk.
8. DTK updates call data with the identified caller's user id and the ticket id of new ticket.

At this point if agent transfers or conferences the call to another agent DTK receives UPDATED call data and displays the caller and ticket directly from the call data received.



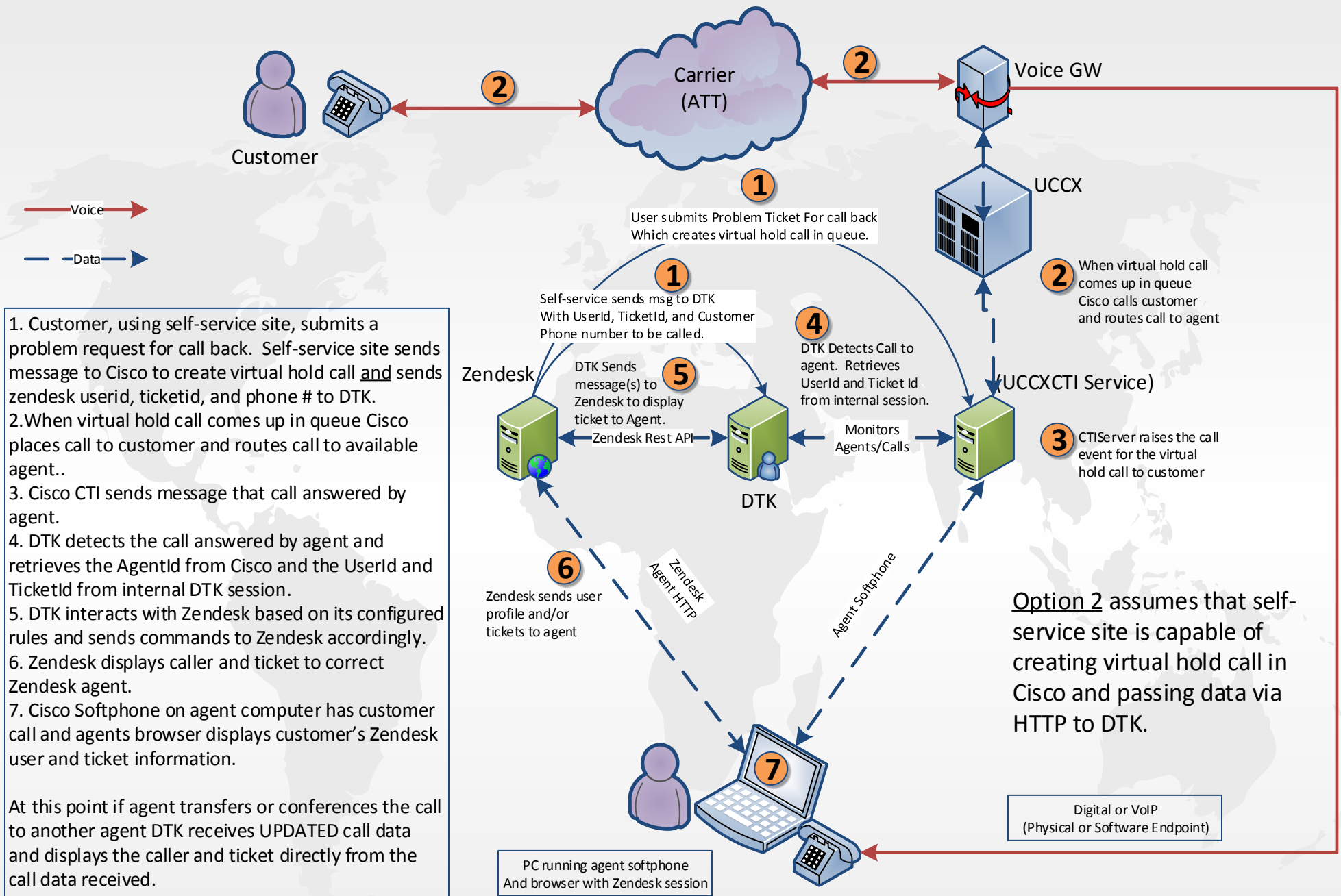
Cisco Finesse Server Deployment Model





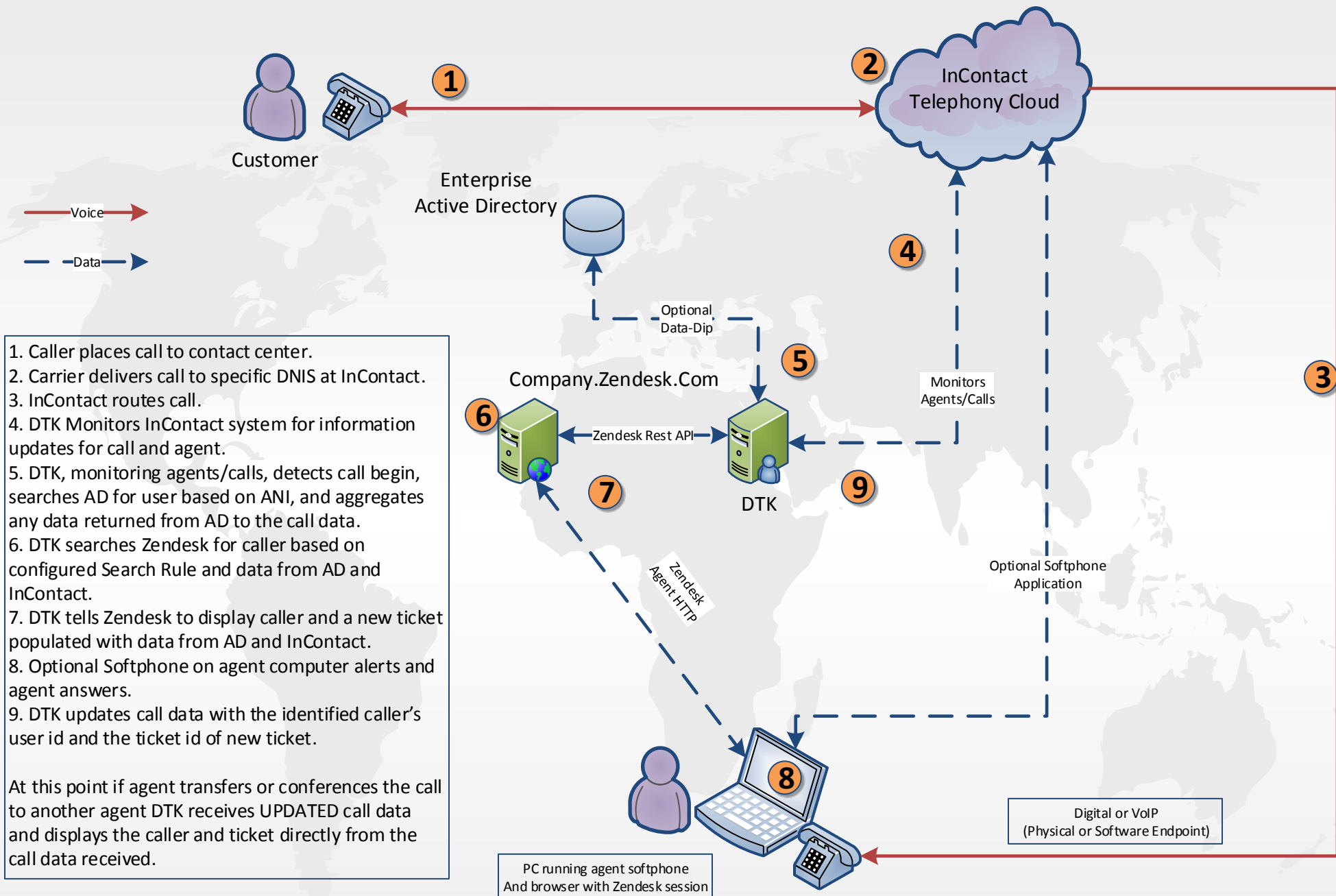
Zendesk / Cisco Integration Opt 1





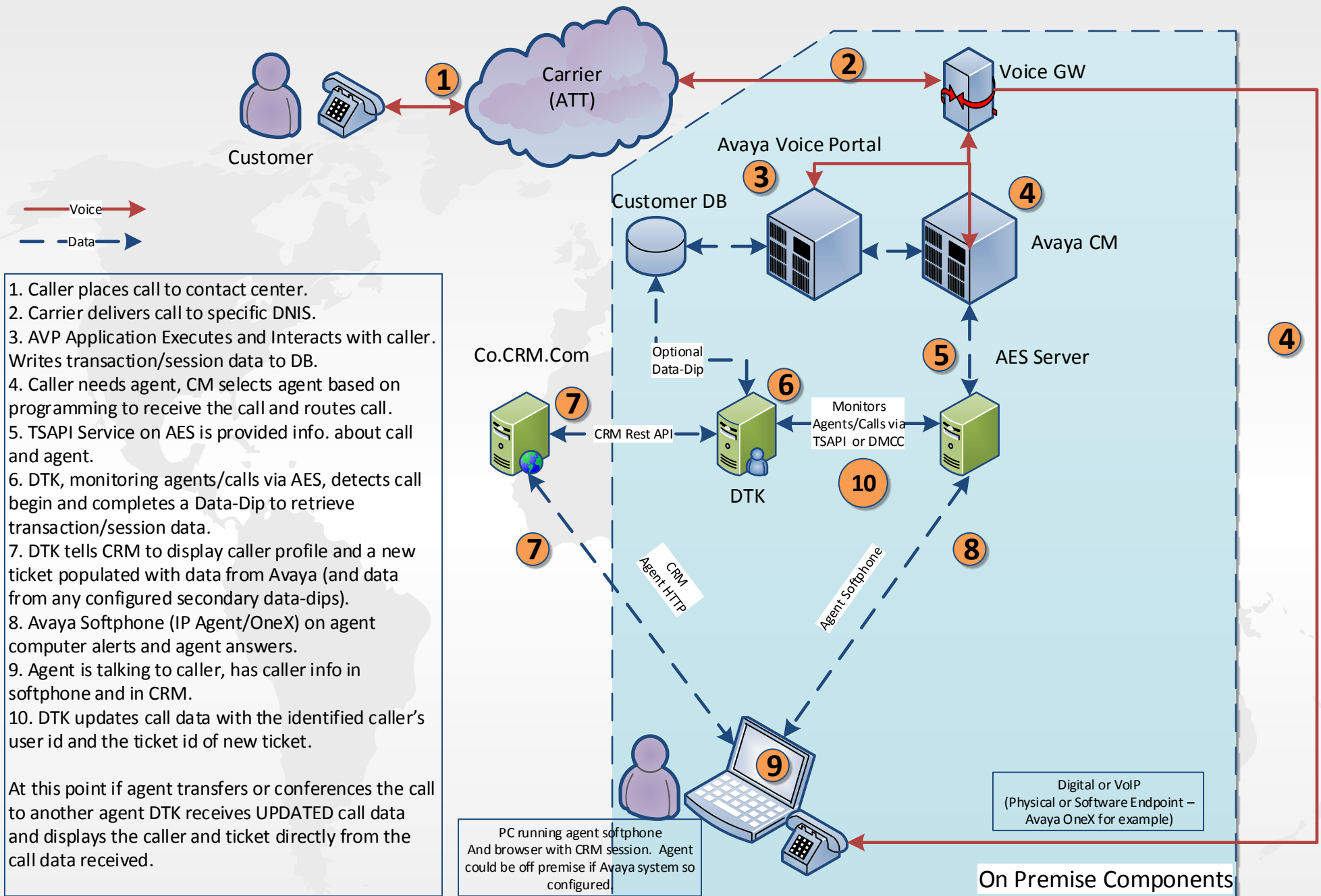
Zendesk / Cisco Integration Opt 2





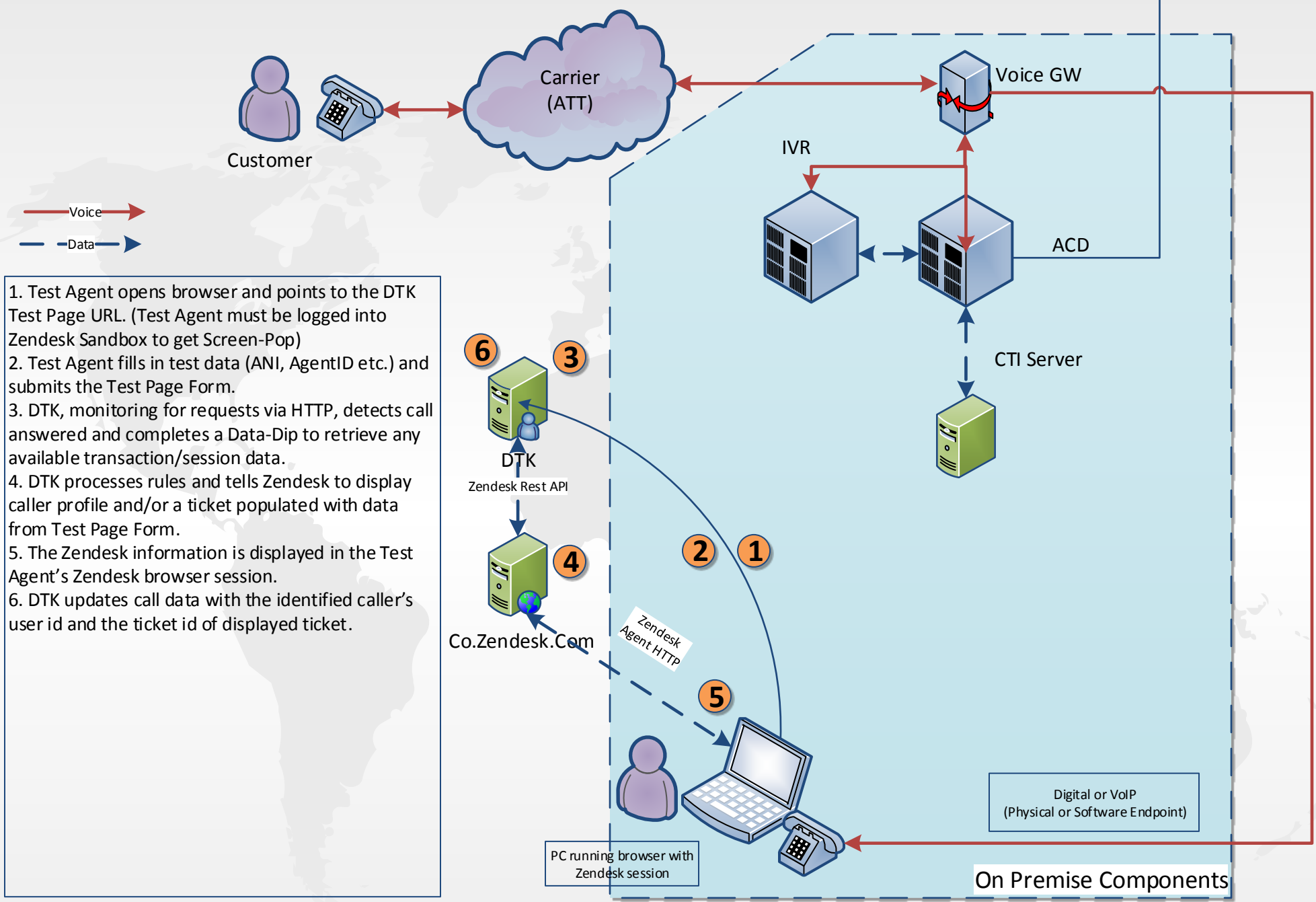
Physical InContact





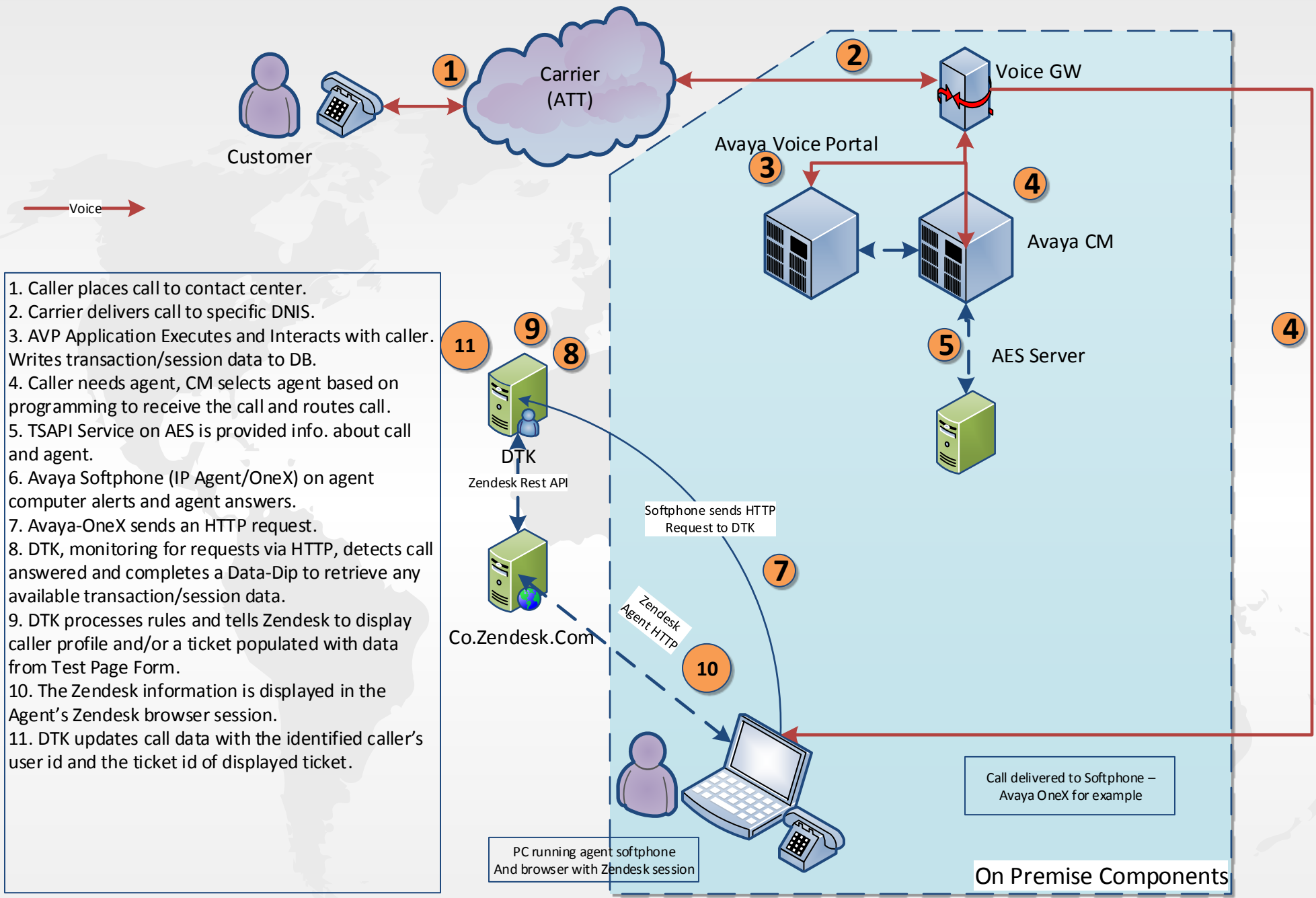
Physical Avaya / AES





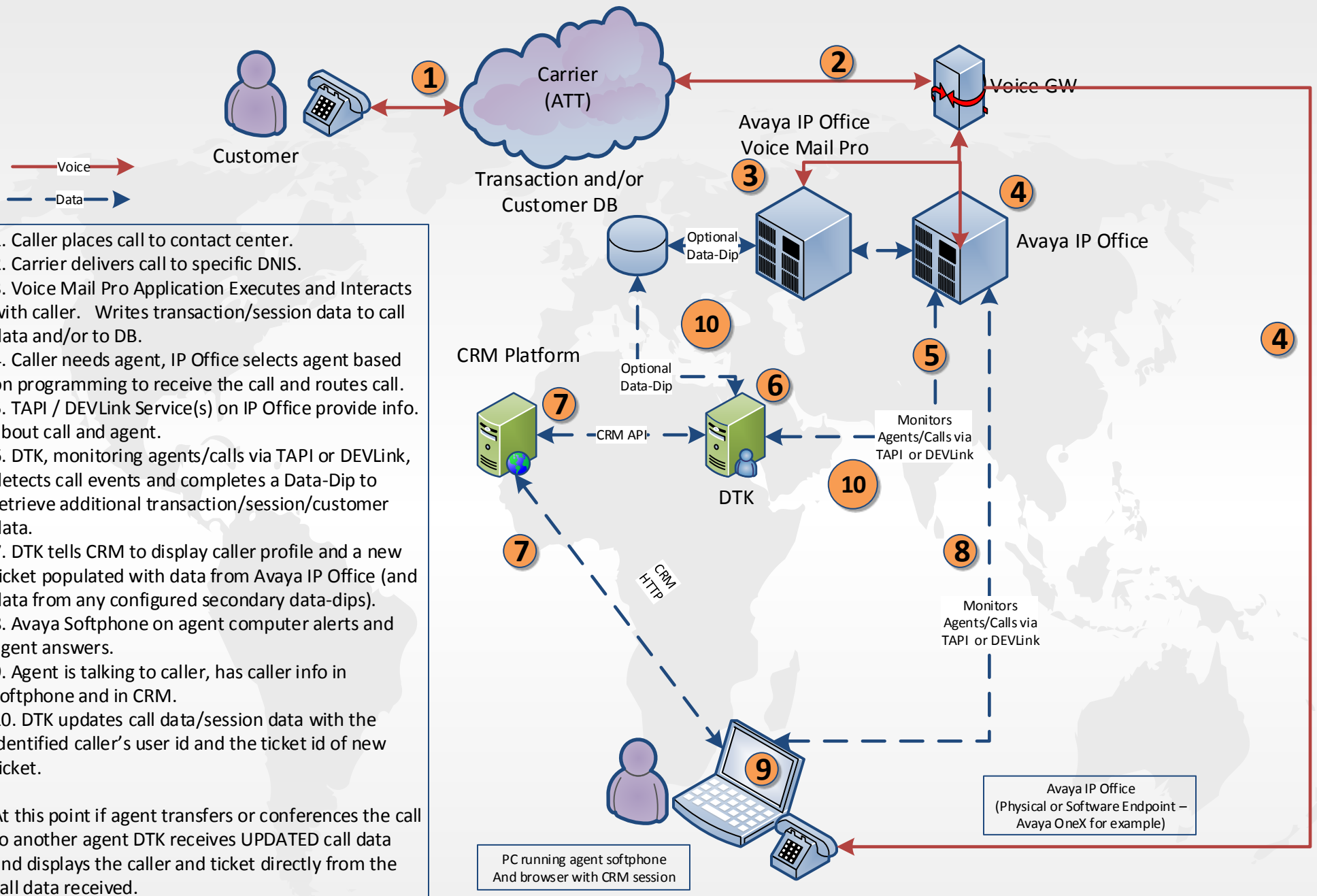
Hosted Demo / Simulation





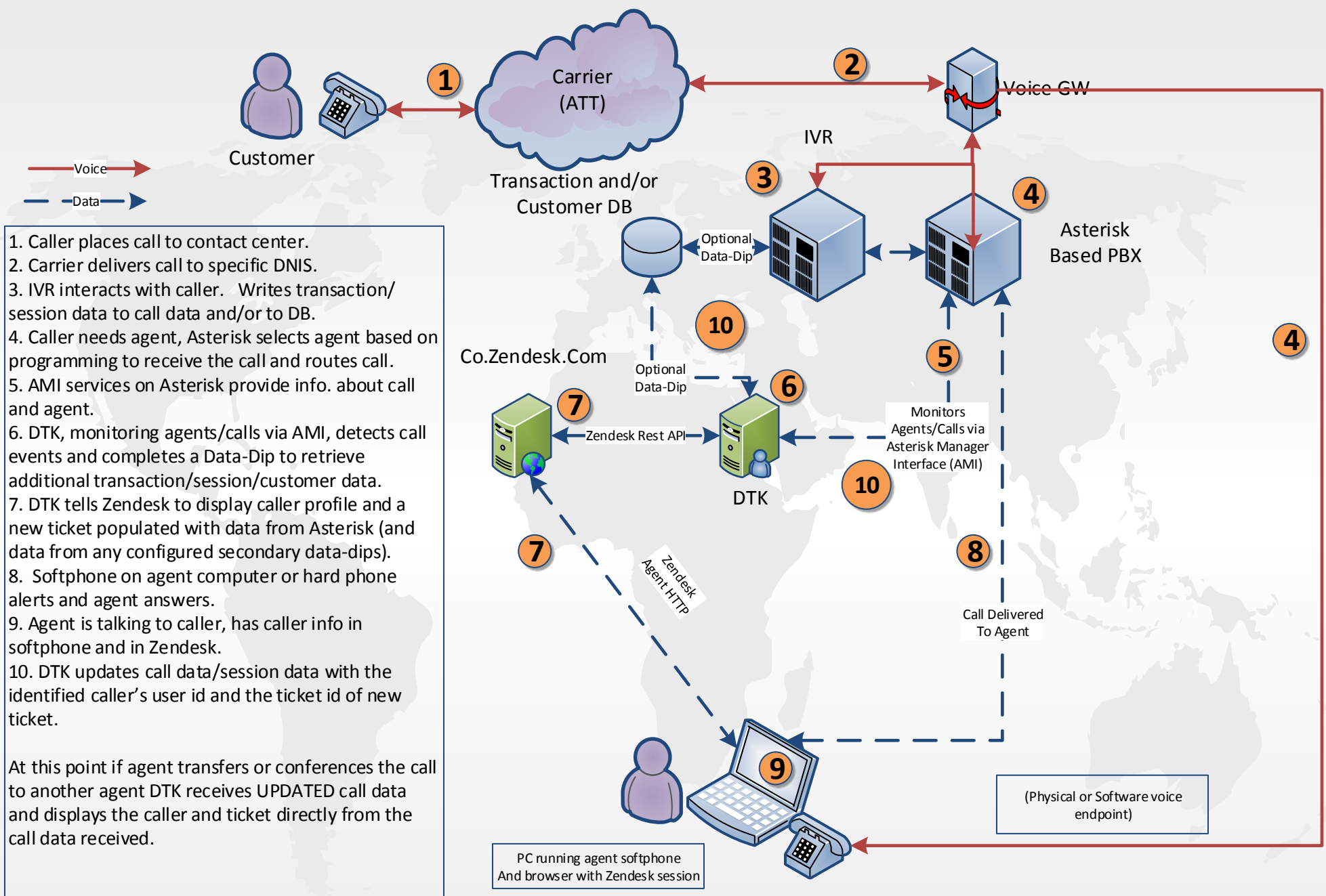
Hosted Environment via HTTP





Physical Avaya IP Office





Physical Asterisk

