

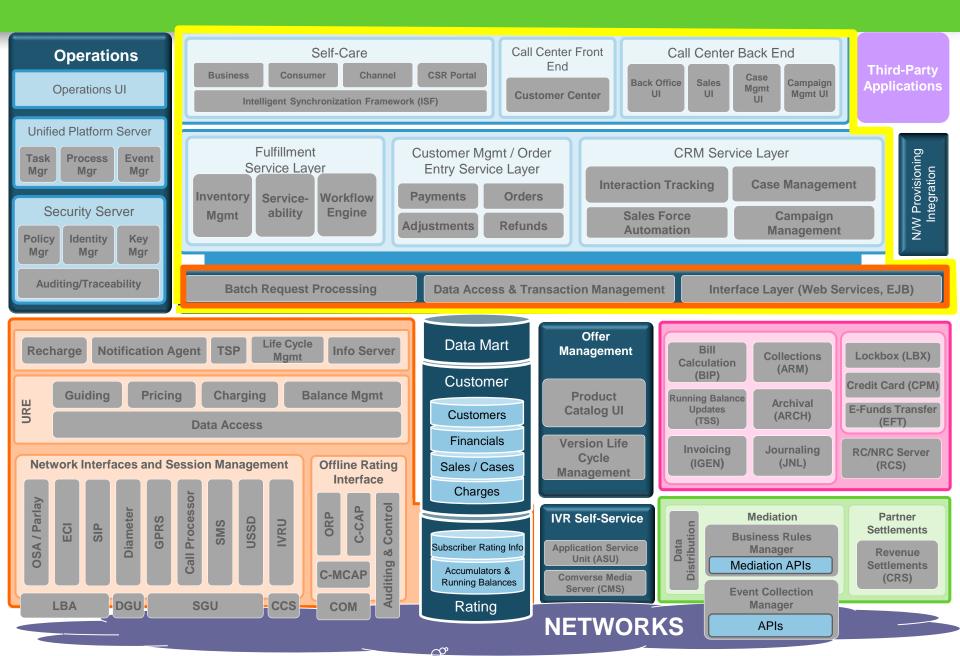
Unified API Overview

Overview of Unified API – Objectives

By the end of this lesson you will be able to:

- State the role of the Unified API in the Comverse ONE platform
- Name the interfaces provided to client applications by the Unified API

Front End – Architecture



Question 1

What are the roles of the Unified API in the Comverse ONE platform?

(Name 2 roles)



Question 1 – Answer

What are the roles of the Unified API in the Comverse ONE platform?

(Name 2 roles)

- 1. Supports client applications such as CCC, CSM
- 2. Provides a client-side software development kit (SDK) that facilitates integration by 3rd parties with Comverse ONE



Question 2

Single API is the main integration point for both internal and external applications.

- □True
- ☐ False. Only internal applications
- ☐ False. Only external applications



Question 2 – Answer

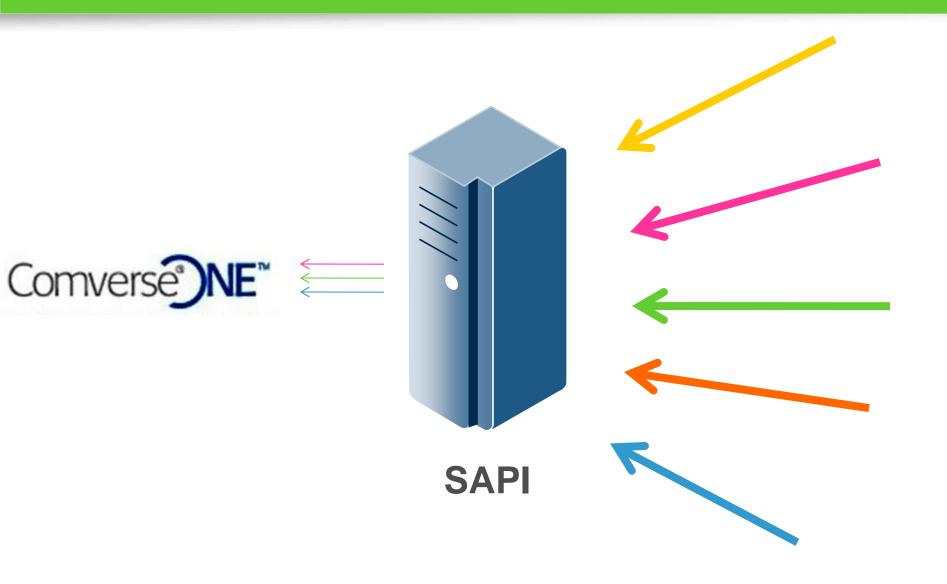
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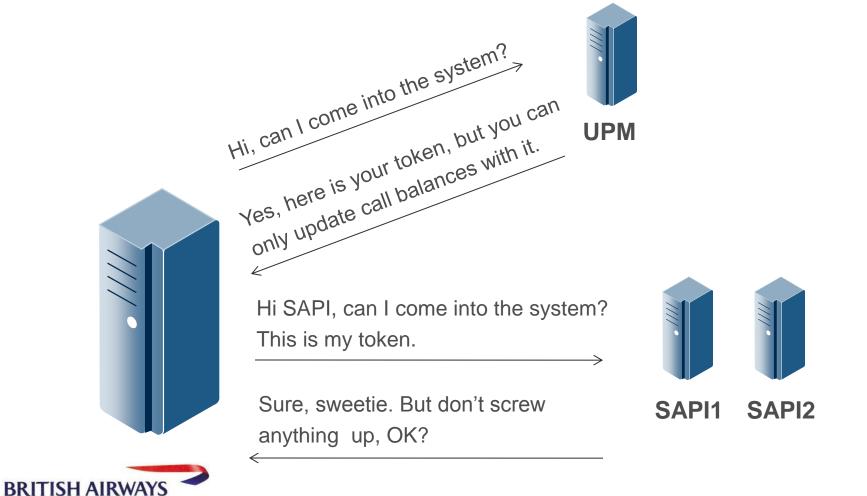
- ☐ False. Only internal applications
- ☐ False. Only external applications



Unified API



SAPI Overview



Unified API – Overview

Environment

Runs in a JEE environment (Using WebLogic, for example)

Third-party integration with Comverse ONE

- Provides a client-side software development kit (SDK)
- 2 major interfaces are supported:
 - Client SDK Java-based API that uses Enterprise Java Beans (EJB) for remote method invocation (RMI)
 - Web Services-based API

Supported Features:

- Authentication, Authorization and Accounting (AAA)
- User-defined transactions (UDTs) via scripting languages
- Sophisticated logging and error handling
- Horizontal scaling via clustering provided by WebLogic

Unified API – Business Domains

Comverse ONE: Real-Time and Converged

- Customer and Subscriber Management
- Financial Transactions

Comverse ONE: Converged Only

- Case Management and Customer Interactions
- Order Management
- Inventory Management
- Workflow
- Extended Data

Question 3

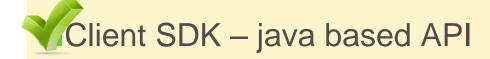
What are the 2 interfaces provided by the Unified API? (Note: More than one answer could be correct)

- □Client SDK java based API
- ■Microsoft.Net API
- ■Web Services
- □C# development platform



Question 3 – Answer

What are the 2 interfaces provided by the Unified API? (Note: More than one answer could be correct)



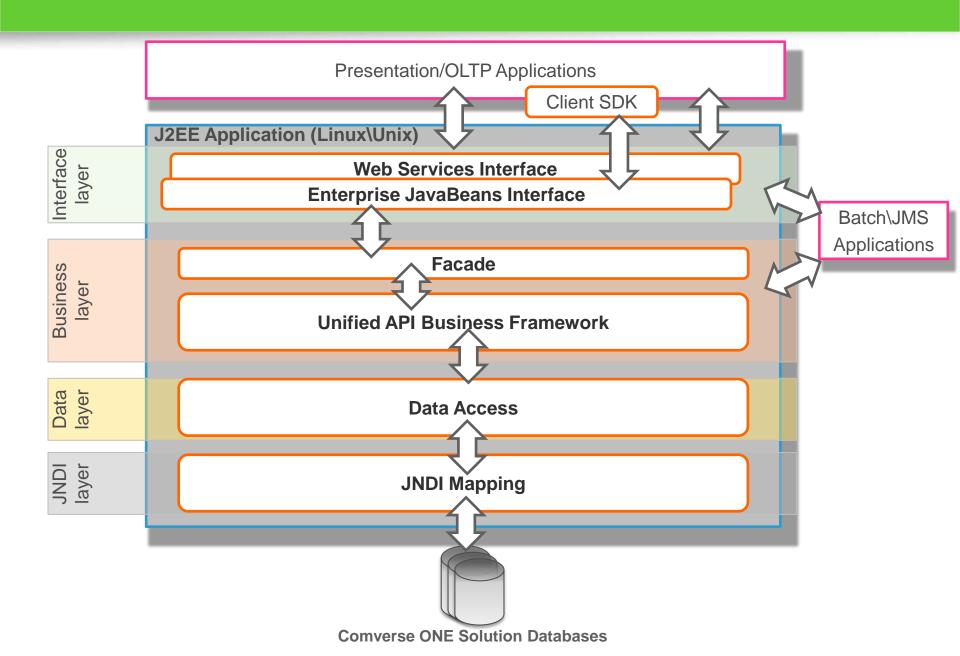
■Microsoft.Net API



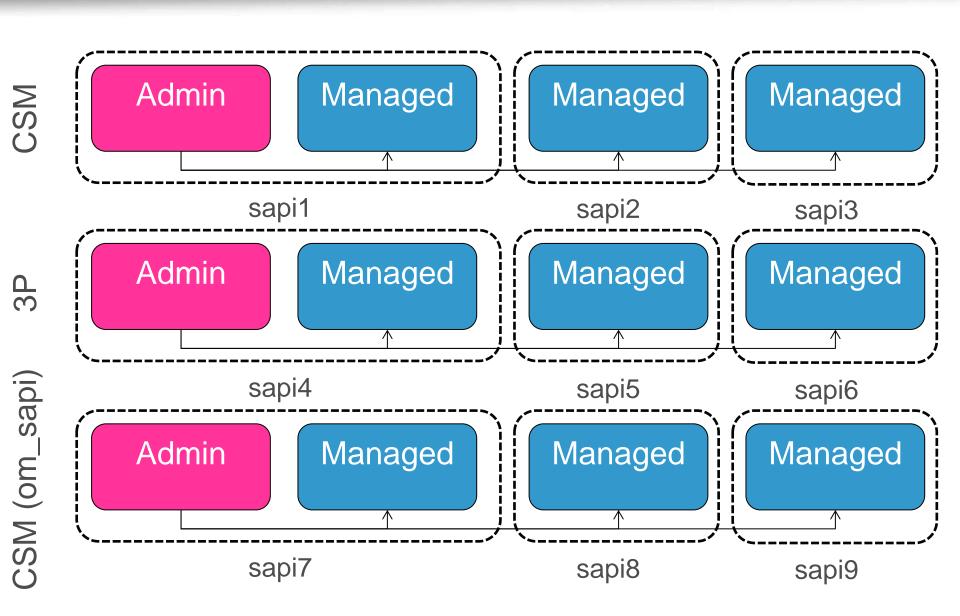
□C# development platform



Unified API – Software Architecture



Unified API – Deployment Architecture (1)



Unified API – Deployment Architecture (2)

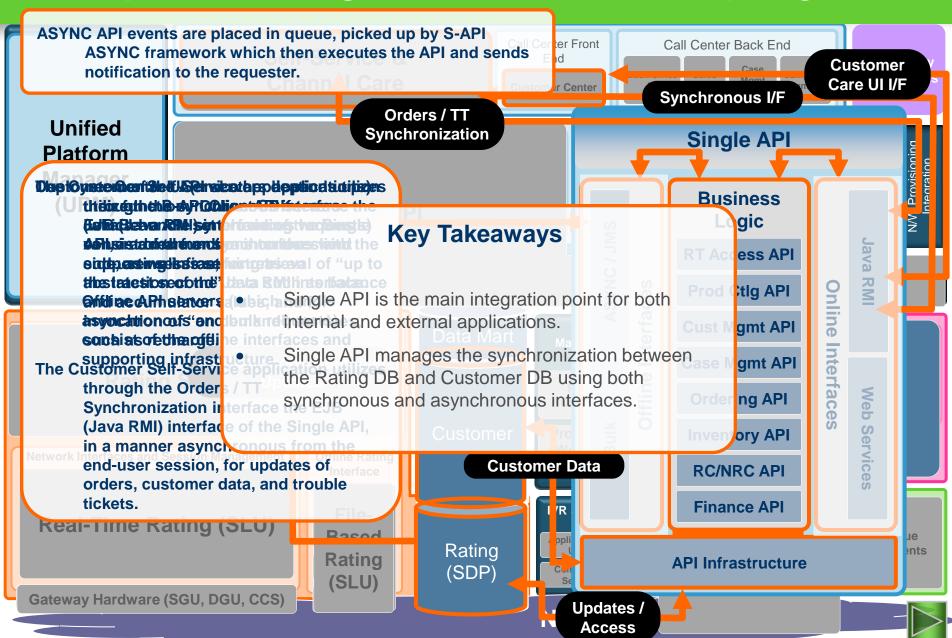
/etc/hosts on the UPM

- Contains MODE parameter that can be MASTER or SLAVE
- MASTER means both an administration server and a managed server will run on the configured host
- SLAVE means only a managed server will run on the configured host

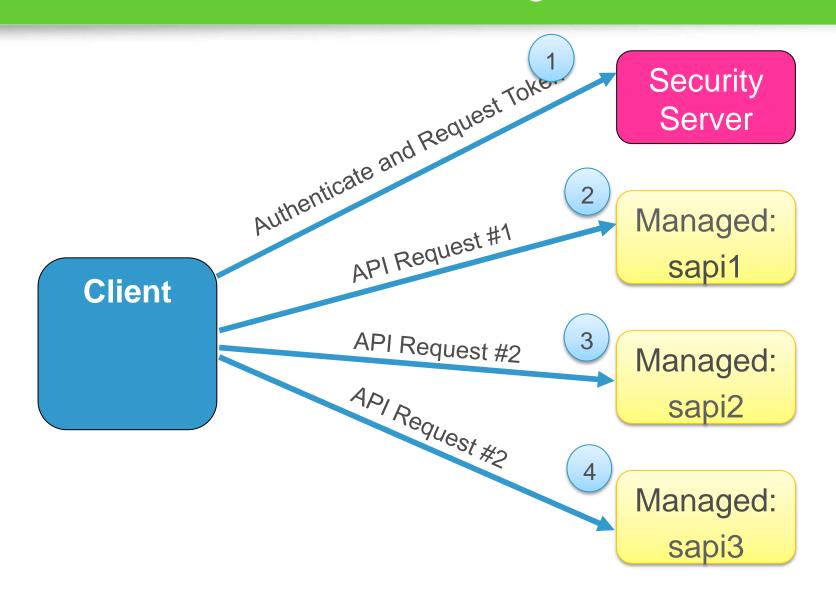
The /etc/hosts file for the previous diagram looks like this:

```
10.10.10.1 sapi1 #mach=sapi mode=master stream=CSM om_sapi=n 10.10.10.2 sapi2 #mach=sapi mode=slave stream=CSM om_sapi=n 10.10.10.3 sapi3 #mach=sapi mode=slave stream=CSM om_sapi=n 10.10.10.4 sapi4 #mach=sapi mode=master stream=3P om_sapi=n 10.10.10.5 sapi5 #mach=sapi mode=slave stream=3P om_sapi=n 10.10.10.6 sapi6 #mach=sapi mode=slave stream=3P om_sapi=n 10.10.10.7 sapi7 #mach=sapi mode=master stream=CSM om_sapi=y 10.10.10.8 sapi8 #mach=sapi mode=slave stream=CSM om_sapi=y 10.10.10.9 sapi9 #mach=sapi mode=slave stream=CSM om_sapi=y sapi9 #mach=sapi mode=slave stream=CSM om_sapi=y 10.10.10.9 sapi9 #mach=sapi mode=slave stream=CSM om_sapi=y 10.10.10.9 sapi9 #mach=sapi mode=slave stream=CSM om_sapi=y
```

Component Integration Architecture (Single API)



Unified API – Common Usage



Unified API – Role of Security Server

- Authentication services are provided by the Security Server to users of the Unified API by providing a token when the user successfully authenticates.
- Authorization policies are provided to the Unified API by the Security Server, which controls which methods and associated timeouts can be called by the user associated with the Unified API context.
- Auditing is provided by the Security Server to the Unified API by allowing user initiated actions, such as method calls, to be logged to a database.

Question 4 – The Security Server Provides the Following Roles to the Unified API

Match the role to its correct actions.

- Authentication services
- 2. Authorization policy
- 3. Auditing services

- A. Controls which methods and associated timeouts can be called by the user associated with the Unified API context.
- B. Provide a token when the user successfully authenticates
- C. Allowing user initiated actions to be logged to a database.



Unified API – Resources

COMONE_<version>_Unified_API_Guide.pdf

- Covers the most common components of the Client SDK
- Contains an API reference for each business domain
- Best resource to use to come up to speed with Unified API architecture and programming conventions



Billing Documentation Portal http://us-dnv-sp01/sites/billingdocs

Javadocs

This is the best resource to use if you are actively writing programs to integrate with Comverse ONE



http://release-

serv.comverse.com/CBS/DIT/CBS3.5.50/TC10/packages/SAPI_JAVADOCS-3.5.50.0-0.0.0 10.0.0 1.zip

Summary

This section has covered:

- The role of the Unified API in the Comverse ONE platform
- The Client SDK and Web services interfaces provided to client applications by the Unified API
- Where to find further information about the Unified API and the API methods that it exposes



