

Tips and Tricks for Oracle SOA Cloud Service Customer Panel

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WORLD

Brian Simmermon

VP & CIO

Subaru of America

Andrew McGee

IT Manager Shared Services

AFG

Duane Debique

Director

Sinclair Broadcast Group

Bruce Tierney

Oracle Cloud Integration

ORACLE®

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SUBARU



SUBARU

Subaru's Connected Vehicle

Brian Simmermon
VP & CIO
Subaru of America, Inc.



An Introduction

What makes Subaru a Subaru

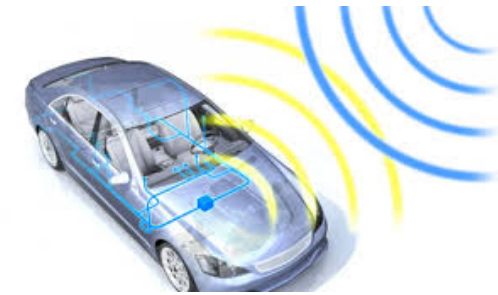


- ✓ *Safe Vehicles - Subaru models with EyeSight receive the highest possible rating for front crash prevention from IIHS*
- ✓ *Symmetrical AWD - Subaru has the best-selling all-wheel drive cars in America for the past 10 years*
- ✓ *Rally racing legend - The Subaru Rally Team has 10 Overall Rally America Champion Titles*
- ✓ *Built to Last - 98% of Subaru vehicles sold in the last 10 years are still on the road today*
- ✓ *Loyal Customers - Subaru is the 2017 Top Brand for Residual Value, according to ALG*
- ✓ *Great value - Subaru is Kelley Blue Book's 2017 Most Trusted Brand, Best Overall Brand, and lowest 5-Year Cost to Own*

Subaru Connected Vehicle Platform

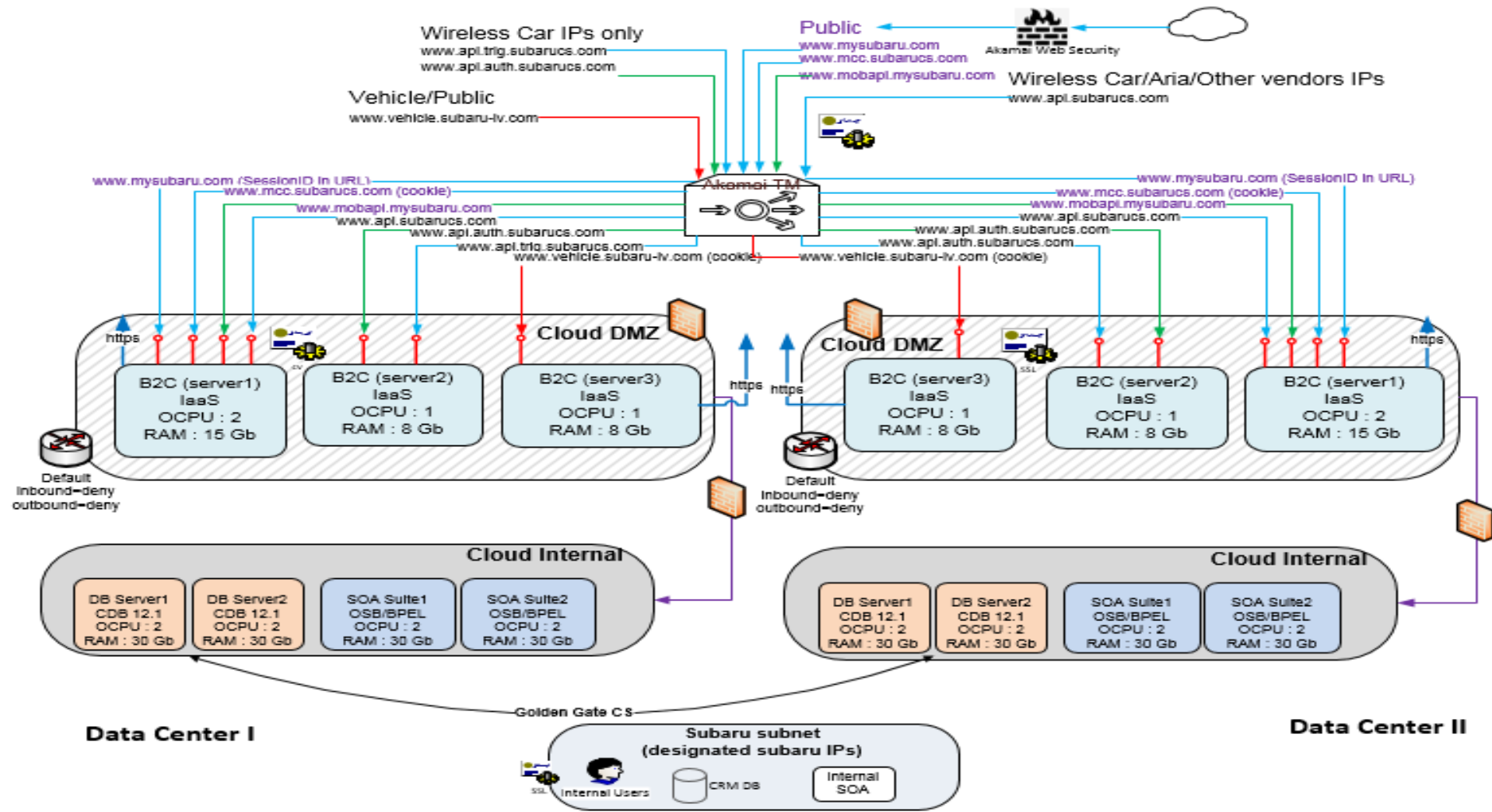
Next Generation Connected Car

- ✓ *Compelling new features to increase subscriptions*
- ✓ *Seamless user experience between Gen1 and Gen2*
- ✓ *Always Connected and Available utilizing HA*
- ✓ *Quick to market to meet Evolving Customer needs while supporting on-time vehicle delivery*
- ✓ *Enhanced & Affordable Telematics options*
 - *SOS Emergency assistance*
 - *Automatic collision notification*
 - *Vehicle health report*
 - *Remote engine start (to name a few)*



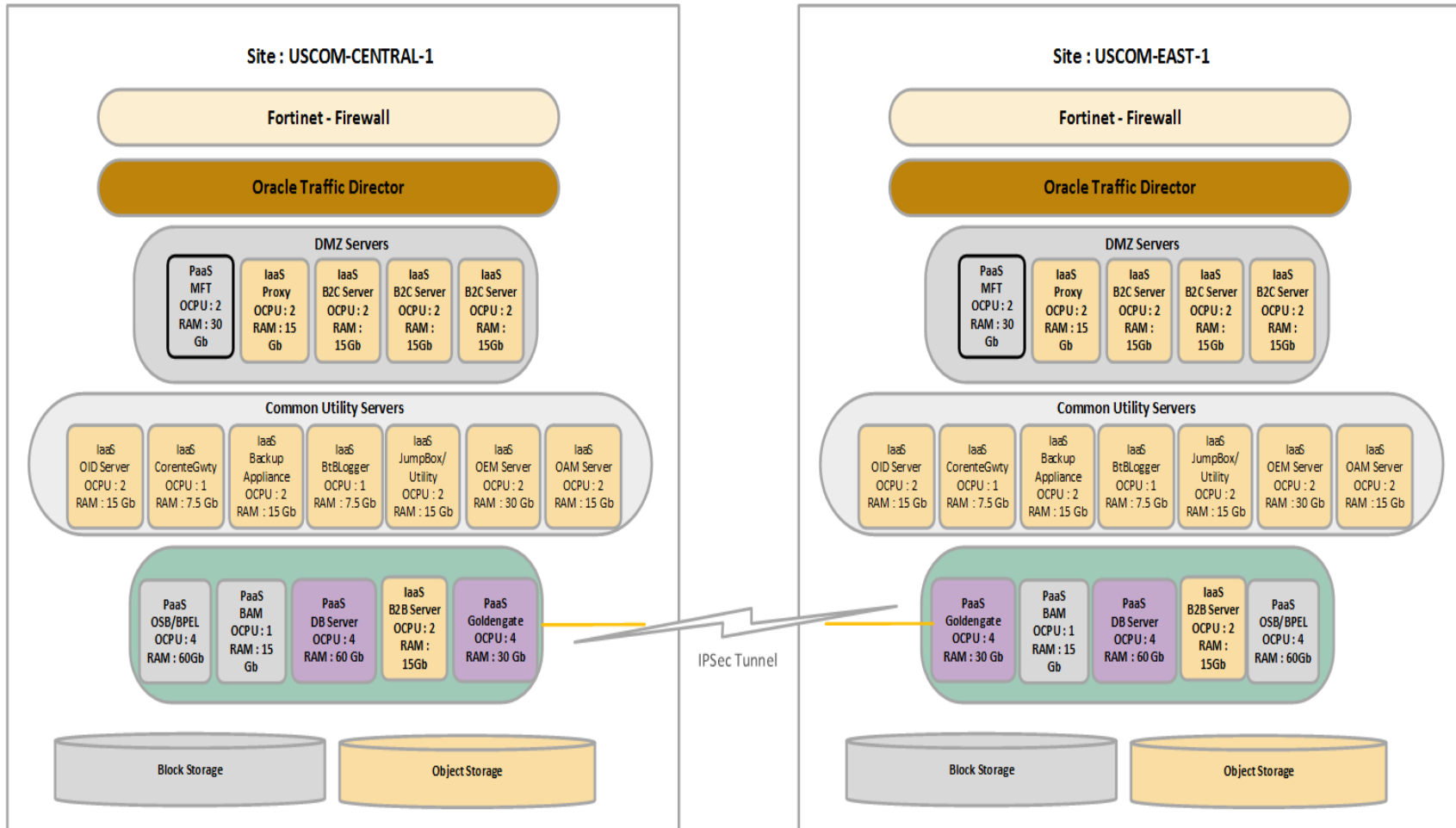
Connected Business Application Blueprints

Subaru B2C Application Architecture - PROD



Connected Business Application Blueprints

DYN Services – GTM/GTD

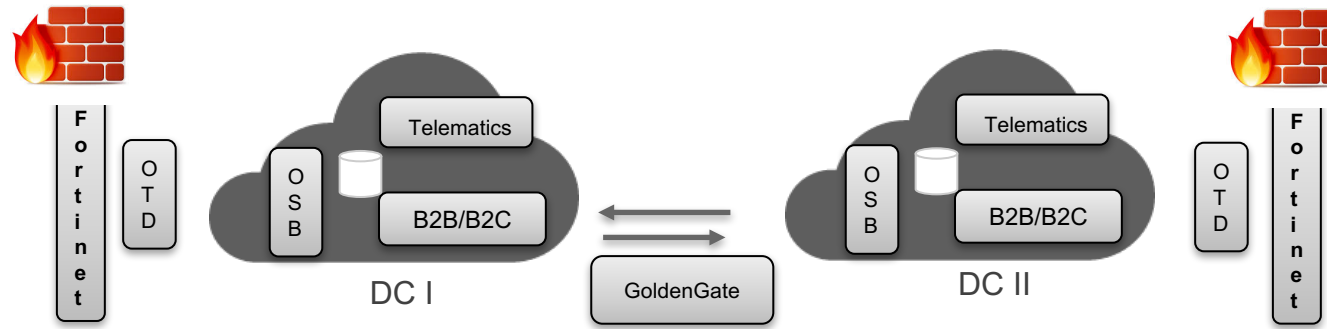


Connected Business Application Blueprints

Success defined

- ✓ *Secure & Scalable platform for phased rollout*
- ✓ *Always available utilizing DYN and GoldenGate*
- ✓ *Application Integration utilizing SOA Suite*
- ✓ *Utilize a combination of PaaS and IaaS to deliver System components*

Cloud Based Integrations



Apps	Integration Types	Components used
Mobile App	Real-time	SOA - OSB
CWP	Scheduled	MFT
B2B Processing	Triggered Events	BAM
	Files	OTD

How did we do it?

- Simplified architecture
- Independent Active-active integrations
- Flexible capacity management

Cloud Value Statement

Subaru, Centroid & Oracle partnering together to deliver high intensity, high volume & high value Connected Vehicle business for all Subaru owners



Scalable capacity including hardware and software to ramp up or down as the business varies



Always available with Active-Active deployment with DYN services and GoldenGate



Enhanced Cloud Security with a certified Fortinet Firewall



Infrastructure/data Go-live on 10/1 - Customer Go-live on 12/1 supporting 2+ million customers

Cloud and Beyond – APIs and SOA

Andrew McGee

- IT Manager across both the Aggregation Business and Lending Business within AFG
- 17 years in IT, 14 in Financial Services
- Focus on Lending Innovation, Data, Process and Customer Experience



Who is AFG?



FY17 Residential settlements of with the Residential trail book now

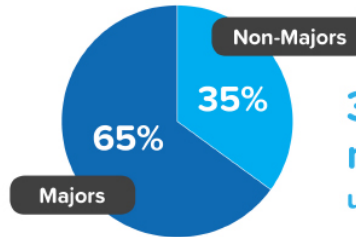
\$34.3 billion
\$126.5 billion

3,400⁺
individual products
up from 1,450 in April 2015

45⁺
lenders



Broker numbers grew to over **2,875 nationally**, up from 2,650 at 30 June 2016



35% of flows to non-majors Q4 2017
up from 29% Q4 2016



1 in 11

Australian residential mortgages are arranged by an AFG broker

199
employees

Broker & consumer advocacy



Responsible, strong and active voice for consumers. Participating in industry and regulatory debates and developments.

AFG wins



- Aggregator of the Year
- Technology Platform of the Year

Australian Broking Awards

What we do with APIs

- **Pushing invoices from ERP** to Document Management for brokers to consume
- **Sending sales transaction from CRM** to Incentive Compensation for commissions
- **Enabling external parties** to inject information into a running credit process (e.g. valuations, supporting documents, credit checks)
- **Progressing an opportunity in CRM** to be taken through a credit assessment
- **Account for commission and sales** information in ERP
- **Initiating an email campaign send** based on CRM and Process data
- Etc.....

AFG circa 2013



Industry Experience
Industry Relationships
Established Team
Established Channels
Cash Flow



High Operational Costs
80/20



100+ Projects



Fintechs

Fundamental of Fintech Competition

Although Fintechs are not dominating the industry (yet) they are defining the direction and pace across all sectors of the industry.



Driven to improve customer experience



Target CX and engage entire efforts to make it happen

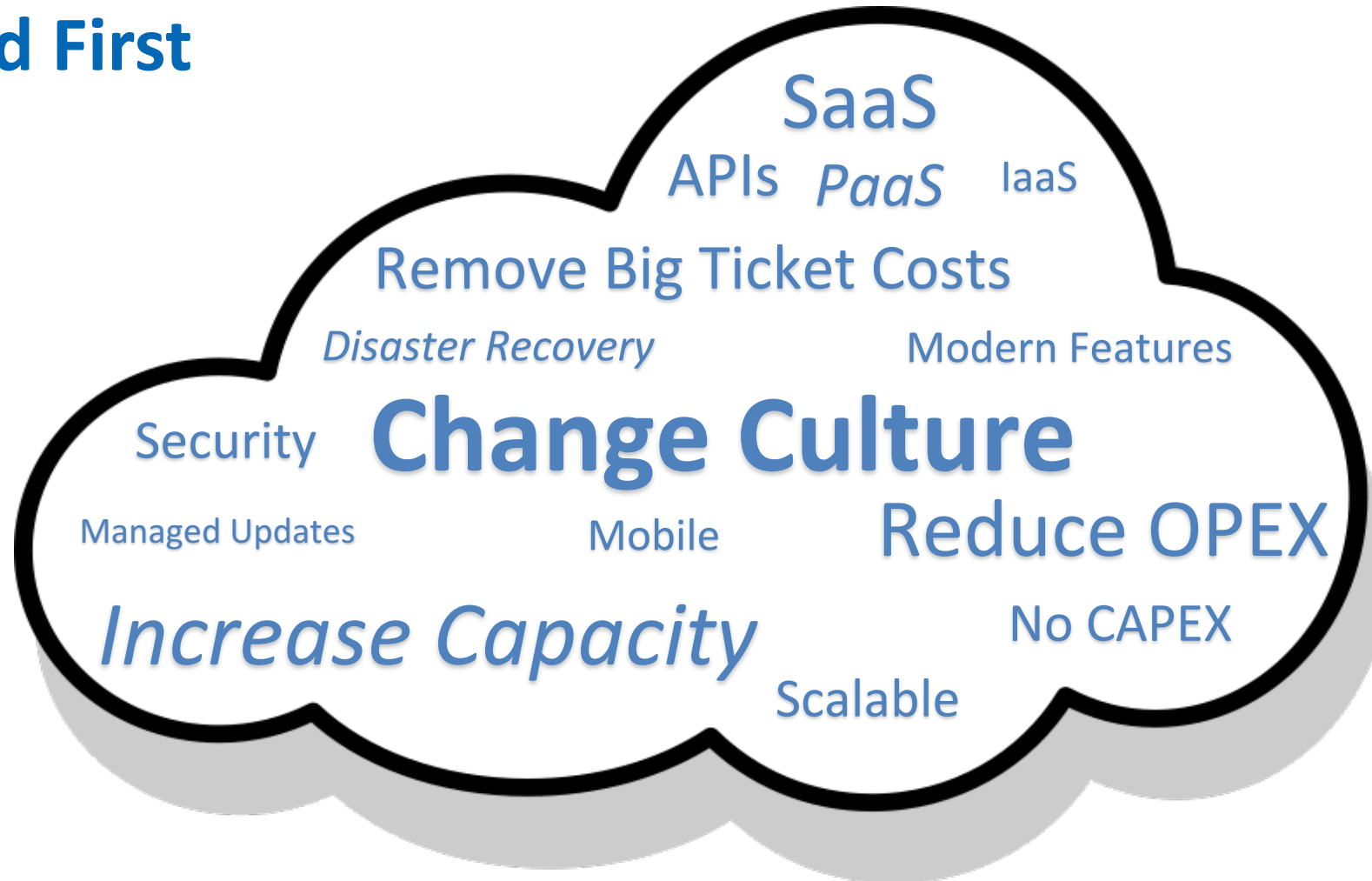


Generally start small but grow quickly

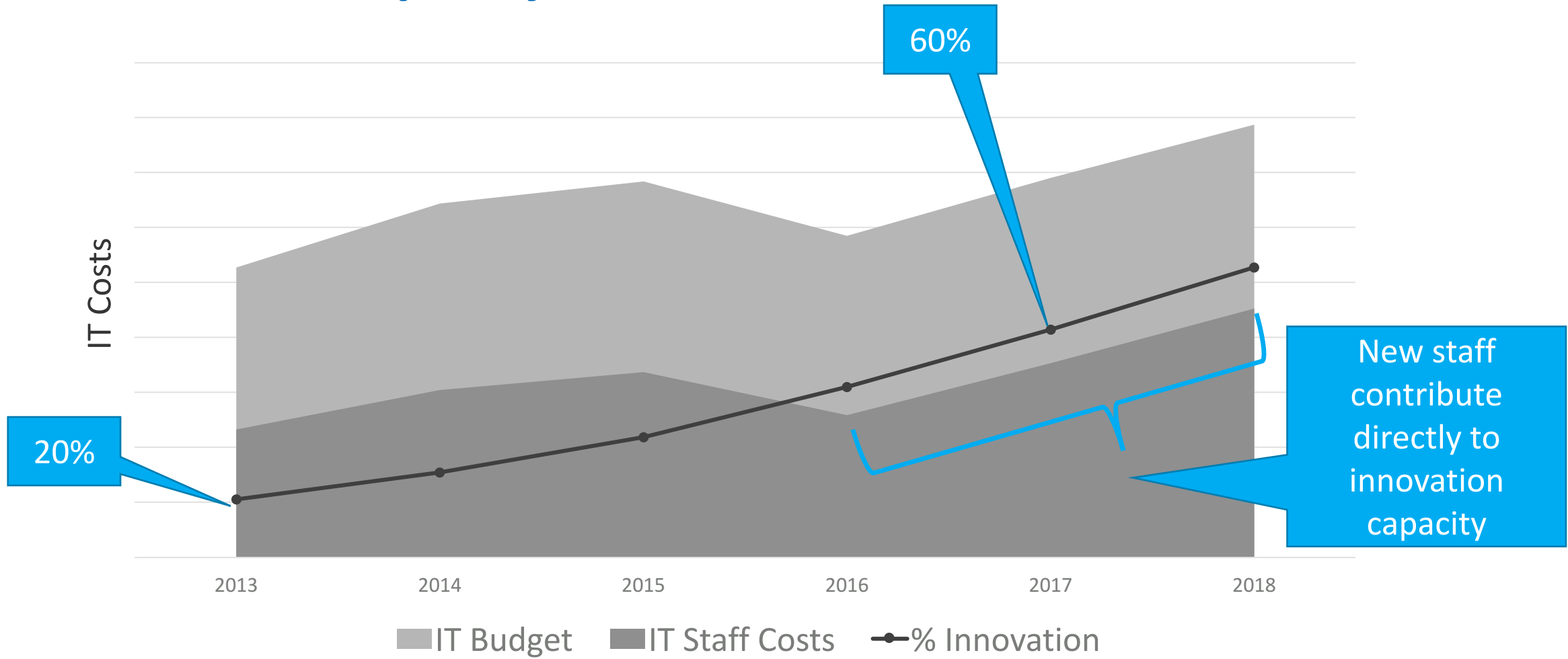


Strongly Leverage the benefits of cloud technologies

Cloud First



Innovation Capacity



Leveraging the benefit of the cloud – API and SOA

Landscape at AFG

SaaS



Sales Cloud



Oracle ERP Cloud



Planning and Budgeting Cloud





Database




Compute

IaaS




Content and Experience




Process



SOA



Analytics Cloud



Database



Microsoft Azure Machine Learning

PaaS



Informatica




IaaS Hosted/
Other

SOACS as an Enabler



Remove frustrations of having to manage the same thing across systems.



Increase the ability to **manage complex tasks**, abstracting it away from applications



Work with external partners easily. As more entities mature this will become more important



Improve the integrity of processes and data across systems



Improve the speed and response time, improving staff and customer experience

Tips

- **Look to enable a plug and play approach** - utilise PCS and SOACS to manage the process so that it can be quickly modelled and modified. Utilise Human Tasks if needed.
- **Never miss a beat** – Use SOACS to log all events, manage any faults and retry any issues.
- **Work with the business** - understand what tasks/processes have a friction point because they are manually managed across systems.

Achievements



4x Faster time to market for key process changes



15% Improvement in staff satisfaction with systems and processes



10% Faster response to customer (aiming for much more)



45% Lower Total Cost of Ownership



80% better quality



Engaged team contributing new ideas

Why Oracle

- **Completeness of cloud offerings** to suit the complex requirements across many functions.
- **Established relationship** and commitment to the project success.
- First cloud applications gave a lot of **confidence** in other applications.
- **Platform as a Service offering is strong** and the combination of Process, SOA, Content and Experience, and Analytics makes an incredibly flexible and compelling combination.

Thank you.



SINCLAIR

BROADCAST GROUP

Third Party OM to Cloud
ERP Invoice Ingest Solution

Who is Sinclair Broadcast Group?

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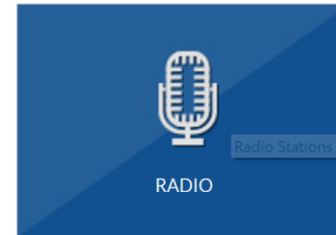
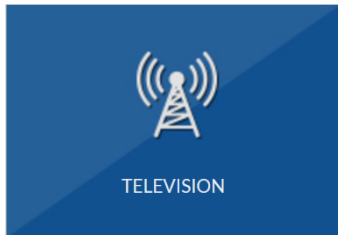
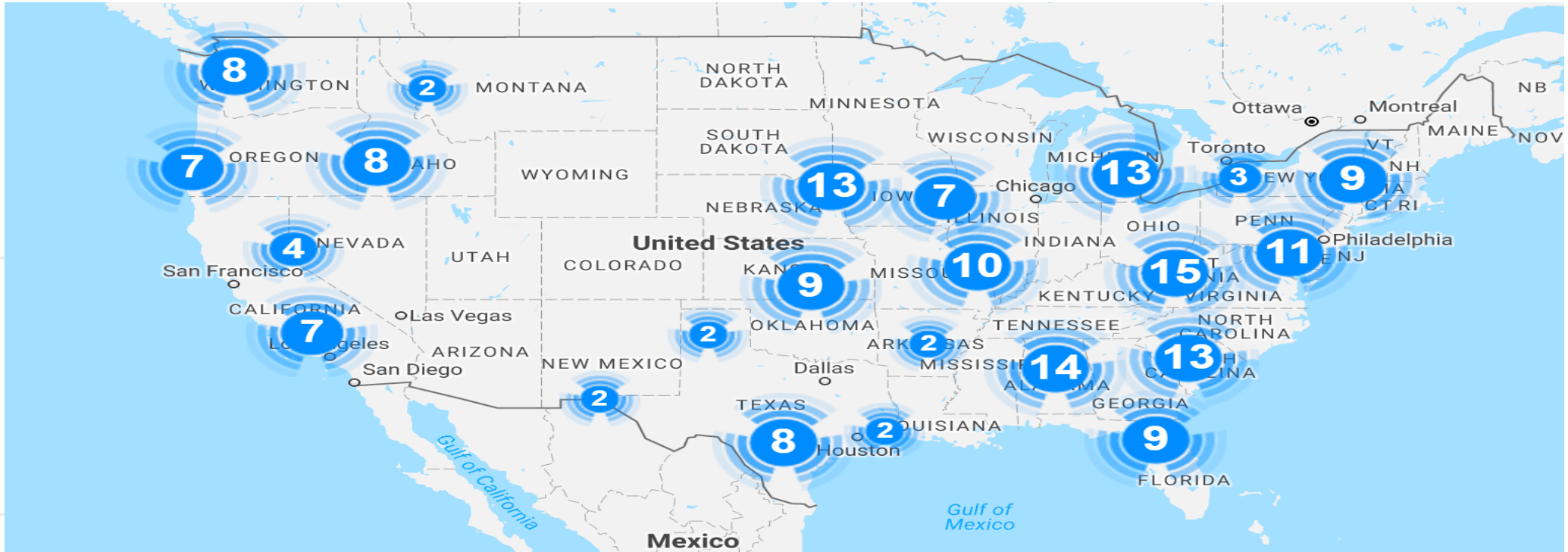
TELEVISION STATIONS

575

CHANNELS

89

US MARKETS



Advertising Platforms



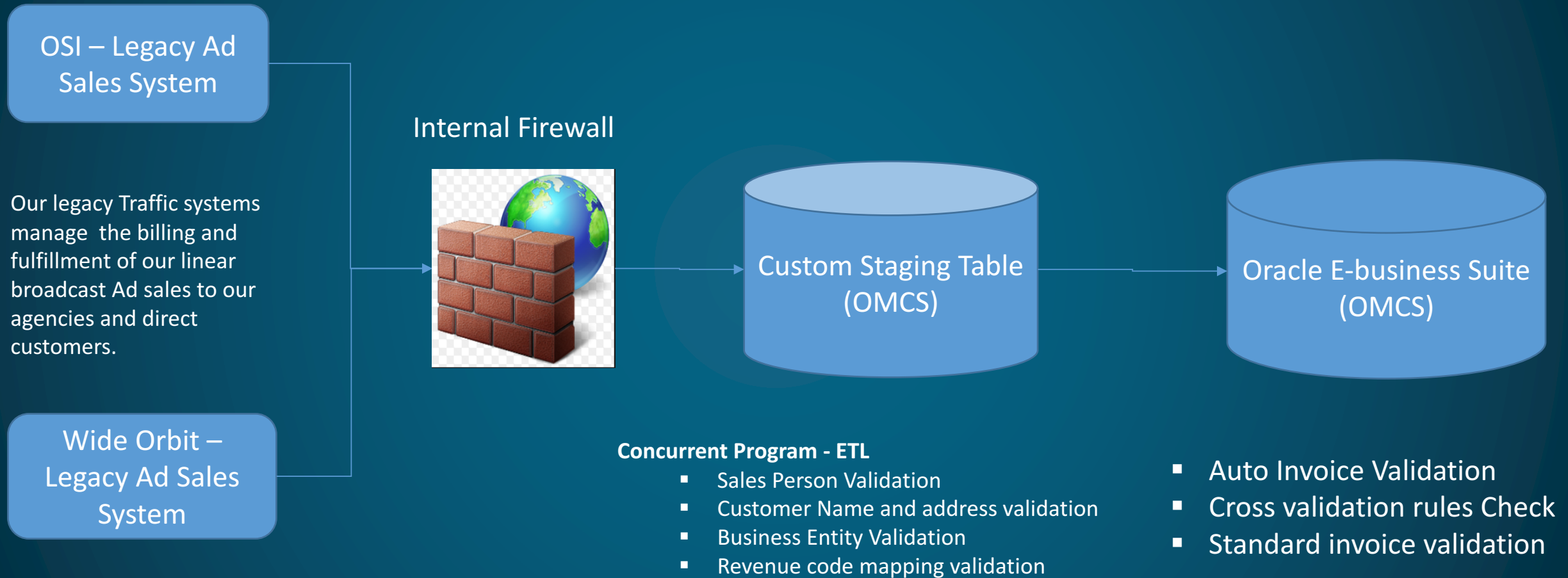
The Bridge Project

In 2015 we were at a cross road trying to determine if we should expand our current footprint in E-Business Suite and upgrade to 12.2. Considering our future plans for expansion and the overall need of our users for new functionality and scalability we decided to make the leap to Cloud.

The Bridge project planning started in Q2 of 2016 and was enormous undertaking for our core internal Sinclair team and our partner KPMG. Our goal was to implement a state of the art Cloud ERP including SOA Cloud Service and MFT including Oracle's PaaS platform in 9 months with HCM and Payroll going live in under 12 months . The ERP team successfully implemented the following modules GL, AP, AR, Projects, Supplier Portal, Purchasing, Procurement Portal and Procurement Contracts. We also consolidated over 90 point to point integrations into roughly 45 SOA composites for ERP/HCM/Payroll.



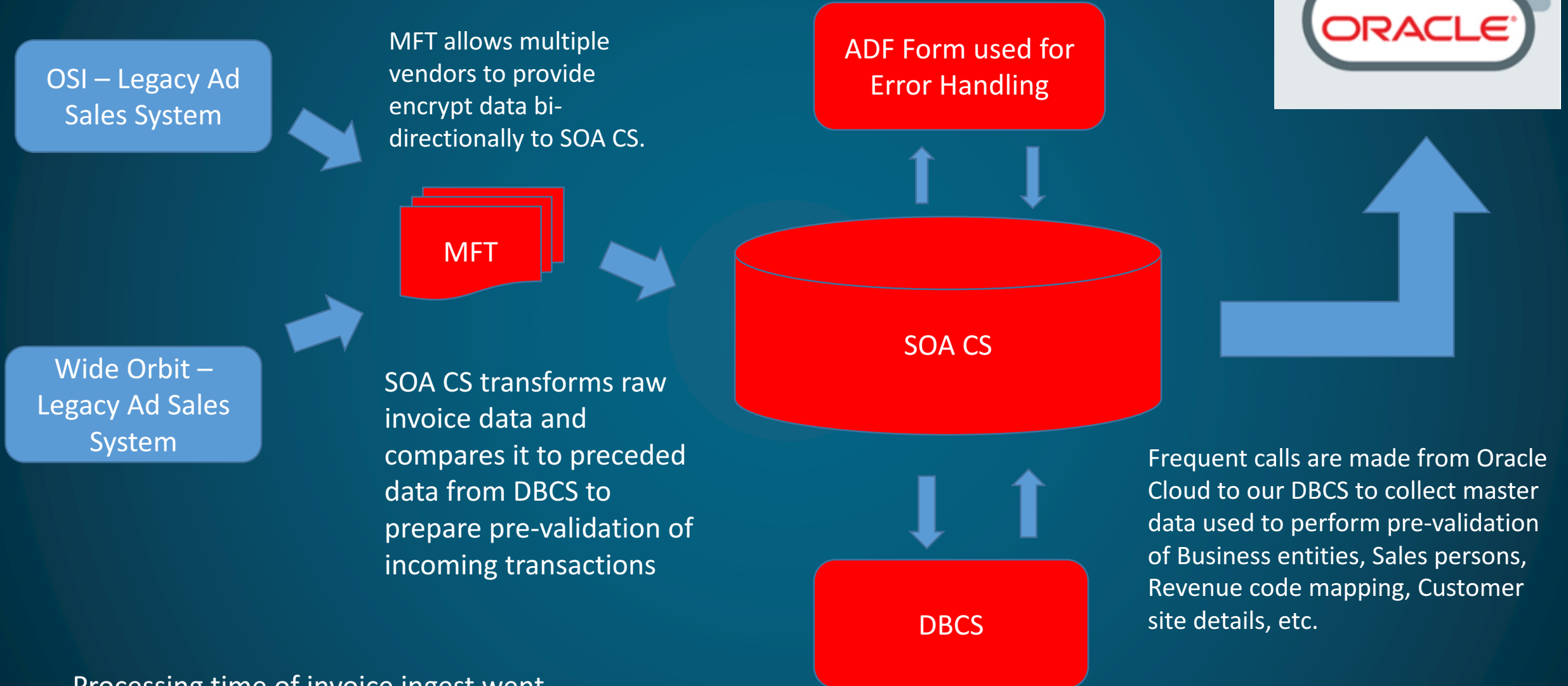
Third Party OM to EBS Invoice Ingest process using Point to Point solutions



Current process took 18-24 to complete 3 million records. Error handling was done primarily through SQL updates.

Invoice ingest using SOA Cloud Service and MFT

Flexible and Scalable



Processing time of invoice ingest went from 18 Hours Down to 2 ½ Hours.

Before - Performance statistics using EBS R12

File Size	# of Records
500 MB	1,541,030

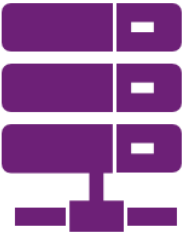
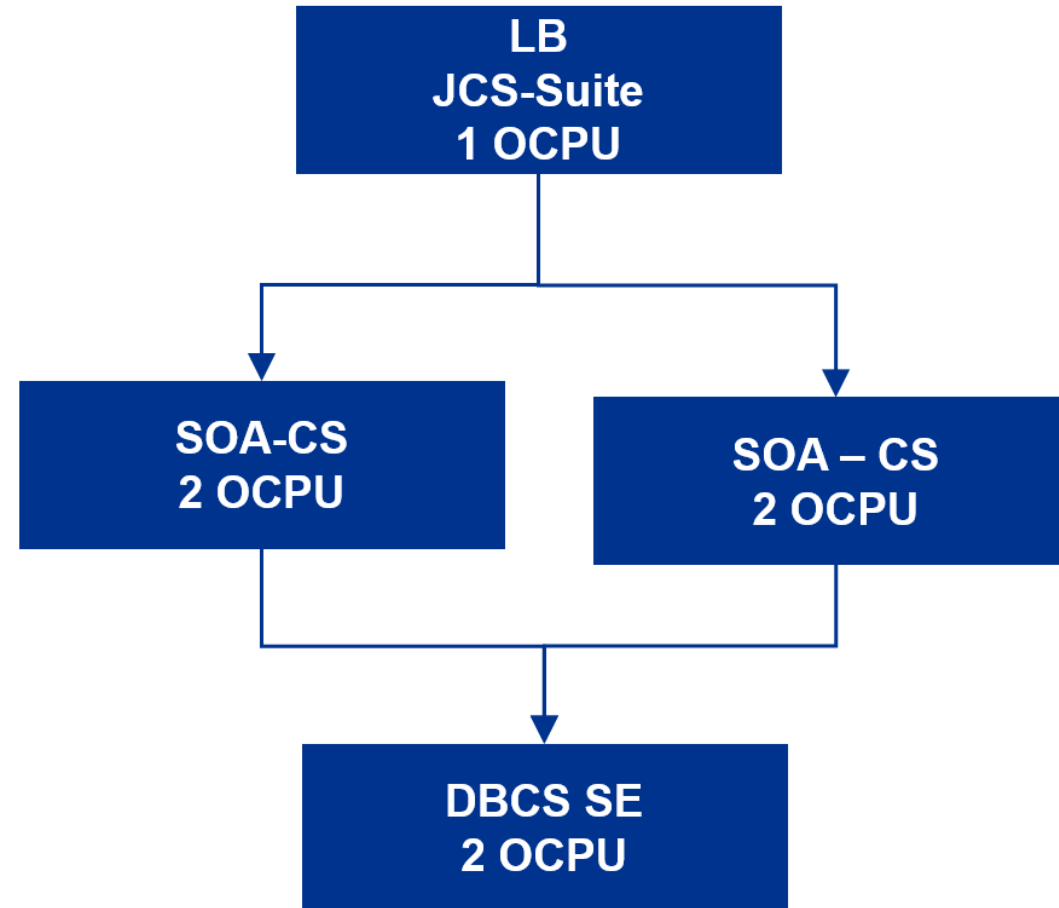
Stage	Steps performed	Time in mins
Load	Load Input files to Staging table	10 mins
Validate	Validate data in Staging table in SOA (PL/SQL)	20 hours
Auto Invoice	Interface/Import	4 hours

After - Performance statistics using PaaS

File Size	# of Records
500 MB	1,541,030

Stage	Steps performed	Time in mins	Comments
Load	Load Input file to Staging table in SOA	16 mins	Chunking Logic: 50 records
Validate	Validate data in Staging table in SOA (PL/SQL)	15 mins	
UCM & Load to Interface	Query Validated data from SOA Staging table, Create FBDI format CSV file, Call ERP Integration Service, Upload to UCM, Load the Data into Auto Invoice Interface table	96 mins	FBDI Chunking Logic: 20,000 Records No of Files: 48
Auto Invoice	Auto Invoice with 25 workers	30 mins	1.1 million VALIDATED records.

PaaS SOA CS Architecture – Production



- 2OCPU Compute Store
- 3TB Block Storage
- 3TB Object Storage
- 3TB DB backup Storage

- LB : Load Balancer
- JCS : Java Cloud Service
- SOA-CS :SOA Cloud Service
- DBCS : Database Cloud Service
- SE : Standard Edition

Lessons Learned

Use of MFT as a secure File transfer tool for out of box support for preprocessing and post processing of files such as PGP encryption and decryption, Zip compressed/ decompressed of files.

Chunking of file is a method used in SOA CS in which large files are divided into smaller size or chunks. Using chunking of file we read the file in smaller size which consumes less memory and improves performance.

Standardize design patterns to accelerate solution build to handle most critical aspect of Cloud Integration with the internal systems.

Using Routing in Mediator multiple vendors file transfers were connected using single mediator and the file was transferred in one Interface instead of multiple point to point integrations

Potential PaaS Purchases for the Future...

- Expansion of the SOA CS and MFT Platform
- Oracle Process Cloud Service
- Oracle Mobile Cloud Service
- Oracle Documents Cloud Service
- Oracle Application Performance Monitoring Service

Questions