

Enterprise Integration: The Past, Present and Future

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Agenda

- Enterprise Integration from 2006 – 2026
- State of Integration in 2016 – examples from typical organizations
- Meeting Challenges of the Connected World
- Conclusion, Q&A

The Stone-age, 😊



Image: [https://upload.wikimedia.org/wikipedia/commons/f/fa/Каменный_век_\(1\).jpg](https://upload.wikimedia.org/wikipedia/commons/f/fa/Каменный_век_(1).jpg)

The Stone-age, 😊



Image: http://web.tiscali.it/nsde1/_informatica/39.jpg

Late 20th Century

- Some companies started Enterprise Integration in the 1960s.
- While most of these were bespoke, there were some patterns that repeated.
- Early Integration Platforms appeared in the 1980s/1990s.
- Frameworks and SDKs followed.



Image: http://www.mbugmovie.com/images/wallpapers/millennium_bug_C_1400x1050.jpg

The last 10 years

- Services: XML → SOAP → WS-* → REST
- Applications: 3-Tier → n-Tier
- Infrastructure: On-Premise → Cloud → Container
- Devices: PC → Smart → Tablets → IoT
- Standards: ISO, W3C, OASIS, JSR, ...
- Humans: We are almost at the same place, 😊

The Connected Business



Image: <http://jdamico.net/wp-content/uploads/2010/04/collaborate-with-B2B-channel-partners.jpg>

The next 10 years

- Data as a Currency
- Capabilities over APIs
- Polyglot Architectures
- Microservices (note: Spellchecker still thinks it is wrong, 😊)
- Humans can remain almost the same, but Businesses can't (ex:- Nokia)

Business Challenge: Legacy Systems



Image: http://i.telegraph.co.uk/multimedia/archive/01535/luggage_1535816c.jpg

Practical Experience: Architect's View



Image: <https://solo3d.files.wordpress.com/2012/04/garage-by-dengo-1.jpg>

Practical Experience: Business' View



© Brian Kimball/Kimball Stock

Image: http://i.dailymail.co.uk/i/pix/2010/08/18/article-1304097-0ABF8CB2000005DC-576_634x307.jpg

Business Challenge: Innovation



Image: <http://vignette1.wikia.nocookie.net/lego/images/0/04/5571-1.jpg/revision/latest?cb=20100211231358>

Practical Experience: Controlled Demolition



Image: http://2irfbl23rse12dglqd39cw6v.wpengine.netdna-cdn.com/wp-content/uploads/2013/06/DSC_2038GovernorsIslandBuildingImplosionAL.jpg

The Typical Project

- Involves the right balance of:
 1. Requirements/Needs
 2. Technology/Tools
 3. Innovation
 4. People/Participation
 5. Investment
- The Key is **Iteration**.

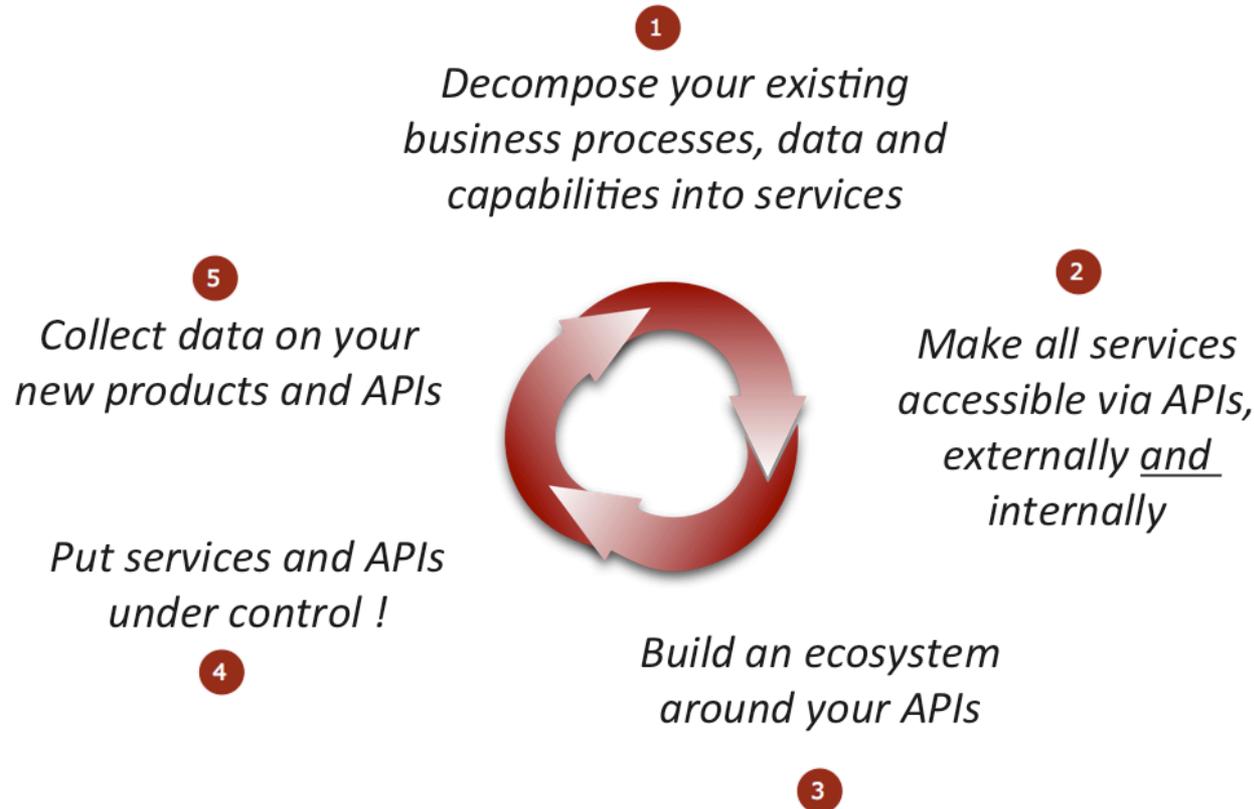
The “Not So Easy” Things

- Project Governance – It is much more than Carrots and Sticks
- Introducing Change
- Managing the Typical Risks
 1. Last-minute features and split-second deadlines
 2. Just the right amount of people
 3. Lost knowledge

The Biggest Integration Challenge

- Making internal and external (B2B, B2C, B2D, B2G, ...) integration possible
 - ... despite all other challenges
 - ... with the least investment (time & money)
 - ... while making all of it last for generations
- In layman's terms: Making the impossible possible

How to Become a Connected Business



WSO2: Connects Anything to Anything

Increase your Pace of Connectedness

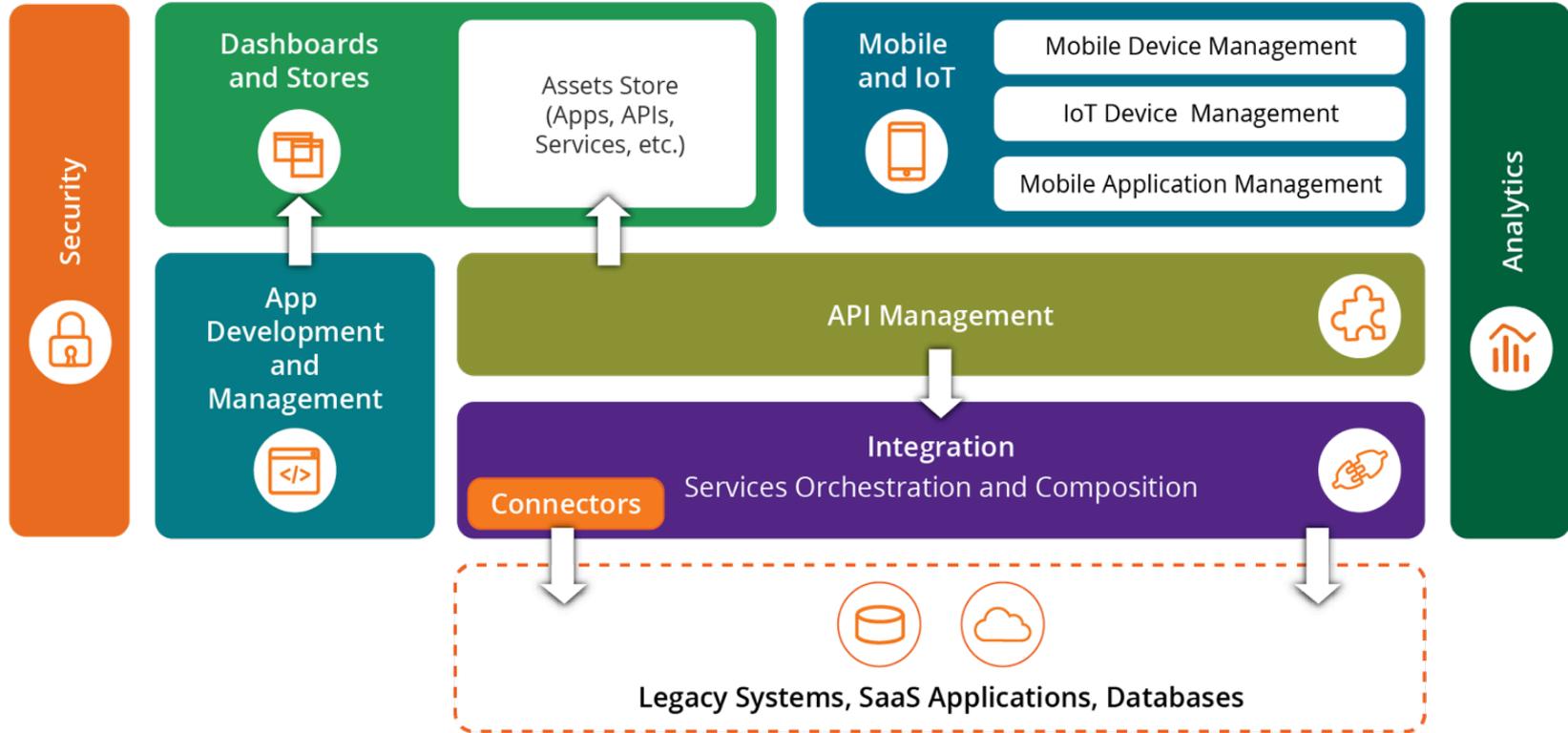
The WSO2 enterprise middleware platform enables businesses to build and launch innovative products and services that eclipse the competition.

Integration: From Football to ESB



Watch at: <https://www.youtube.com/watch?v=nRI6buQ0NOM>

Yet Another Integration Platform?



The WSO2 Advantage



Only comprehensive open source middleware platform



Launch Applications in ½ the time



60% less resources needed to build and launch



75% Cheaper than competition in 1st year of deployment

3 Key Takeaways

- Integration is not a new problem and will never be an old problem – it just changes face
- Every modern business needs to be a connected business
- Iteration is key to keeping up with enterprise challenges

THANK YOU

Please drop in @ our booth on the 5th floor

CONTACT US!

