TECHNOLOGY TRANSFER PRESENTS

MAX DOLGICER

THE NEW INTEGRATION MANIFESTO

APPLICATIONS, DATA, CLOUD, MOBILE, AND THE INTERNET OF THINGS

APRIL 18-19, 2017

RESIDENZA DI RIPETTA - VIA DI RIPETTA, 231
ROME (ITALY)

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ABOUT THIS SEMINAR

Integrating applications and data in a timely and cost efficient way has been among the top priorities of most CIOs for decades. However, today we face new challenges: how do we connect our core systems to the extended ecosystem of Cloud, mobile devices, external app developers, business partners and the Internet of Things (IoT)? Not surprisingly, in a recent forecast Gartner Group predicted a 33% increase in integration cost over the next few years.

The three classic integration architecture patterns still apply: Data Consistency - making data across applications consistent; Multi-step Processes - orchestrating the execution of activities across people, programs, and devices; and Composite Applications – new user facing applications created out of existing applications and services. However, today these patterns are applied to a broader array of integration projects.

Examples include synchronizing data in SaaS applications with on-premises applications, incorporating Cloud based services into new Composite Applications, integrating mobile apps with on-premises back-end systems, deployment of B2B processes that bring new efficiencies and cost savings, and turning vast amounts of data from IoT devices into actionable intelligence.

Many companies are prone to fall into the trap of repeating the “integration spaghetti” of the 1990s. The integration technology landscape today is becoming increasingly more complex - companies face a wide variety of approaches and middleware platforms that could be utilized. We will look at major use cases, best practices, and the functionality you should be looking for when selecting a technology platform. The chances of finding a “one stop shopping” solution are slim - in a typical scenario best of breed solutions are fragmented across the different domains of integration.

We will discuss data integration, a long standing staple for any company, but vastly more challenging now that proliferation into clouds threatens to invalidate our systems of record. We will look at application integration: how can we move legacy applications forward into a world of services and how to integrate with the Cloud and across Clouds. When should you employ on-premise integration, integration Platform as a Service (iPaaS), or Hybrid Integration?

Enterprise mobile apps today are more than mere UIs to back-end systems - they have to work online and offline, synchronize local and enterprise data stores, interact with enterprise services intelligently, and be centrally managed. Last but not least the IoT is quickly becoming a first class citizen in the enterprise ecosystem. No longer can it be restricted to specialized applications and access protocols – it has to be connected to Cloud, mobile apps, and enterprise systems like CRM and ERP, in order to create the $14 Trillion business value that analysts forecast.

These complex integration scenarios require well thought-through architectures. We will examine modern API integration architectures, demonstrating the relationship between SOA, REST, Web Services, APIs, and Micro Services. We will also take a look at Blockchain to see whether it presents an alternative or if it can be employed complementary. Finally, we need to address the cross-cutting issues: security, monitoring, and the evolution (or disintegration?) of the IT organization as companies adopt the Digital Business.

Best practices and lessons learned will be discussed throughout the seminar, two case studies will emphasize application of the integration approaches, and we will put everything together so that the attendees can start formulating a comprehensive integration strategy for their company.

Benefits of attending

- Understand how to solve the integration challenges when enterprise applications are extended to mobile
- Learn how to architect scalable integration solutions that can be reused and how to integrate and reduce the complexity of your application portfolio
- Understand the major use cases for data integration and what functionality the leading technology platforms provide
- Learn how to integrate applications on-premise, with the Cloud, and across Clouds
- See why a API-based integration architecture is an efficient approach to facilitate application integration on a large scale
- Understand how to integrate the Internet of Things into your enterprise ecosystem and capitalize on its potential

OUTLINE

1. Integrating the Extended Enterprise

- The IT mega-trends that drive integration today
  - Cloud, Mobile, Big Data, Social
- The next frontier: The Internet of Things (IoT)
- The evolution of integration
  - The three major phases
  - Why each phase increases the degree of com plexity
- Seven things you must know about integration
- Exercises for integrating the extended enterprise

2. Data Integration

- When to use Data Integration
  - Business Intelligence (BI)
  - Data synchronization
  - Master Data Management (MDM)
- Data virtualization
- Meta data & integration modeling
- Survey of major use cases and data integration platforms
- Exercises for Data Integration

3. From EAI to SOI and ESB

- Interface (Application) Level Integration
- The beginnings: Enterprise Application Integration (EAI)
- Principles of Service Oriented Architecture (SOA)
- Why Service-Oriented Integration (SOI)?
- Enterprise Service Bus (ESB) - a technology platform for SOI
- ESB usage patterns
- Typical application architecture patterns: Multi step process vs. Composite Application
- Exercises for service-based integration

4. Cloud Integration, iPaaS, and Hybrid Integration

- Cloud flavors: IaaS, PaaS, SaaS – or something in between?
- What drives the need for Cloud integration
- Why do we need a new technology for Cloud integration?
- Cloud Service Integration (CSI)
- Integration Platform as a Service (iPaaS)
- Magic Quadrant for iPaaS products
- Choices for Cloud integration architectures
- The rise of the Hybrid Integration pattern
- Exercises for Cloud integration

5. Integrating Mobile Enterprise Apps

- Types of mobile apps
- Connecting mobile apps to backend systems
  - A 7-step approach
- Mobile Backend as a Service (MBaaS)
- DreamFactory – a mobile backend integration fra mework
- Achieving scalability through a mobile Cloud
- Exercises for mobile integration

6. Enterprise IoT – The New Integration Challenge

- What is the Internet of Things (IoT)?
  - Examples: Smart Cities, Usage Based Insurance
- Consumer vs. Industrial IoT
- IT (Information Technology) vs. OT (Operations Technology)
- Components of an IoT architecture
- Why IoT integration is exponentially more complex
  - History repeats itself - different technologies, same integration problems
- Integration on the edges: Gateway topologies and fog computing
- IoT integration platform
  - Yet another ESB… or iPaaS for IoT?
- Exercises for integrating the IoT

8. Addressing the Cross-Cutting Concerns: Security, Monitoring, Organization

- New security concerns introduced by Cloud, Mobile, and IoT
- How can end-to-end security be implemented?
- New monitoring concerns introduced by Cloud, Mobile, and IoT
- How can end-to-end monitoring be implemented?
- The impact of Digital Business on the IT Organization
  - Cloud Computing and the rise of the Citizen Integrator
  - How to manage mobile app developers who are not your employees
  - Integrating machines vs. integrating applications
  - The changing role of the Integration Competence Center
  - Is Bimodal IT a solution?
- Exercises for cross-cutting concerns

9. Case Study: Efficient B2B Integration and Enhanced User Experience

- Project Overview
- Service Oriented Integration Architecture
  - Service Layering
- Partner Integration: B2B Gateway
- Standards-based Data Architecture
  - Open Travel Alliance (OTA)
  - Schemas – Componentization Yields Reusability
- Web Application
- Mobile Integration
- IoT Integration

10. Case Study: Multi-party Process Integration and Energy Efficiency through IoT

- Project objective
- Challenges
- Project scope (multiple phases)
- Workflow
- Architecture
- Business Process walk-through
- Integration orchestration
- BPM vs. coding
- Phase II
- Conclusions

11. Summary and Conclusions

- Summary
- A unified integration architecture - is it feasible?
- What to do tomorrow?

WHO SHOULD ATTEND

- IT Managers that need to understand the challenges and opportunities for integrating on-premise applications, Cloud-based systems and mobile apps
- IT Architects who want to define architecture to facilitate successful integration projects
- IT Professionals who need to see when and how different integration solutions can be applied
- Developers and IT Managers who want to obtain an overview of the different approaches to integration that are available today
- IT Managers and IT Strategists selecting new technologies
- IT Architects and Managers who need to develop an integration strategy for their company
- IT Professionals looking for best practices to be applied in integration projects
- Consultants who need to recommend different strategies for implementing integration solutions

INFORMATION

PARTICIPATION FEE

€ 1300

The fee includes all seminar documentation, luncheon and coffee breaks.

VENUE

Residenza di Ripetta
Via di Ripetta, 231
Rome (Italy)

SEMINAR TIMETABLE

9.30 am - 1.00 pm
2.00 pm - 5.00 pm

HOW TO REGISTER

You must send the registration form with the receipt of the payment to:
TECHNOLOGY TRANSFER S.r.l.
Piazza Cavour, 3 - 00193 Rome (Italy)
Fax +39-06-6871102

within
April 3, 2017

PAYMENT

Wire transfer to:
Technology Transfer S.r.l.
Banca: Cariparma
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GENERAL CONDITIONS

DISCOUNT

The participants who will register 30 days before the seminar are entitled to a 5% discount.

If a company registers 5 participants to the same seminar, it will pay only for 4.

Those who benefit of this discount are not entitled to other discounts for the same seminar.

CANCELLATION POLICY

A full refund is given for any cancellation received more than 15 days before the seminar starts. Cancellations less than 15 days prior the event are liable for 50% of the fee. Cancellations less than one week prior to the event date will be liable for the full fee.

CANCELLATION LIABILITY

In the case of cancellation of an event for any reason, Technology Transfer's liability is limited to the return of the registration fee only.

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Registration fee:
€ 1300

If registered participants are unable to attend, or in case of cancellation of the seminar, the general conditions mentioned before are applicable.

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SPEAKER

Max Dolgicer is an internationally recognized expert, Technical Director and Principal at International System Group, (ISG) Inc., a leading consulting firm that specializes in design, development and integration of large-scale distributed applications using leading edge Middleware technologies. Mr. Dolgicer is a contributing editor for Application Development Trends magazine and recognized speaker, instructor and lecturer. Mr. Dolgicer has more than 30 years of management and technical experience in development and support of Business applications, software products and systems internals. Mr. Dolgicer's academic background includes a Master in Computer Science from Technion, Israel Institute of Technology.