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Building a SOA Roadmap

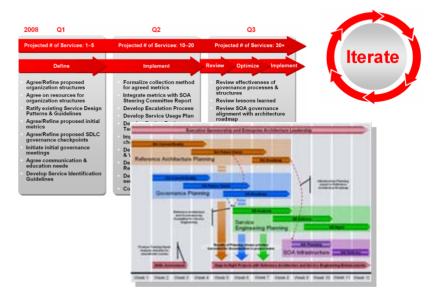
Duško Vukmanović Senior Sales Consultant



SOA Roadmap

Providing Guidance and Coordination

- Allow multiple projects to progress in parallel and remain coordinated
- Generally, time horizon is 2-3 years
 - Depends on enterprise planning cycles
 - Greater detail in near-term phase
- Regularly reviewed and updated
- Incremental improvement
- Course correction



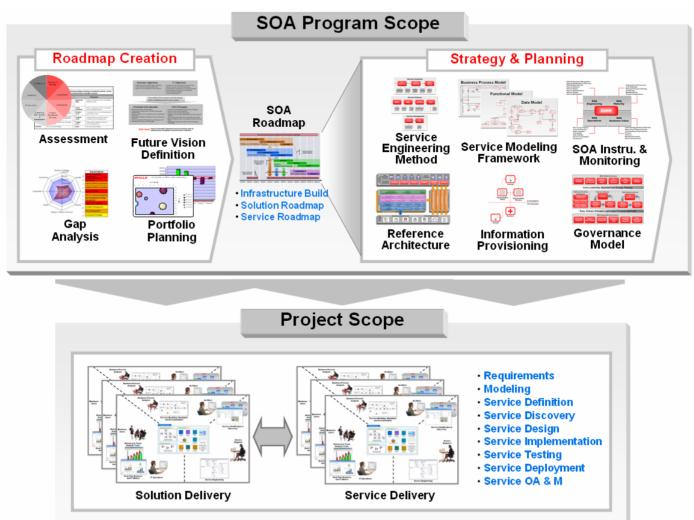
- SOA Roadmap consists of 3 fundamental parts
 - Program-level efforts
 - Portfolio of projects that build specific business solutions

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Portfolio of shared services



SOA Roadmap Three Fundamental Parts



Building an SOA Roadmap



All roadmap building follows the same four steps:

- •Where are we now?
- •Where do we want to be?
- •What is the gap between the two?
- •What is the path to get to where we want to be?

These steps require a consistent measurement to assess current state and progress toward the goal.

SOA Maturity Model



Oracle's SOA Maturity Model Key Concepts

- Oracle's SOA Maturity Model includes the following key concepts:
 - Capabilities
 - Domains
 - Maturity
 - Adoption
- SOA Maturity Model remains technology, standards and product agnostic.
- SOA Maturity Model includes over 90+ capabilities.

- Capabilities capture best practices that Oracle has collected over many years working with a wide variety of companies
- Additional capabilities are added as more best practices emerge
- 8 Domains classify & organize related capabilities
- Capabilities include a description for each level of maturity and each level of adoption



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SOA Capability Maturity Levels Higher the Level – Higher the Capabilities

Strategic Goals

Able to support business initiatives in a timely and cost-effective manner.

> Processes and procedures quantitatively managed to drive business value.

SOA concepts consistently applied facilitating sharing and reuse

> Focused on simple quick win projects to demonstrate value

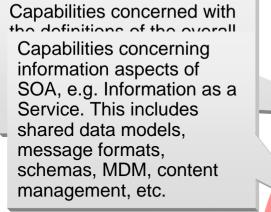
Experimenting with and learning SOA concepts

SOA not being pursued

Tactical Plans
Refine and improve standards and processes Exploit new business opportunities enabled by SOA Establish key performance indicators and manage to those metrics Leverage BAM to improve business processes. Standardize approach and products Drive widespread adoption Establish governance Apply SOA to simple integrations Select business-driven projects amenable to SOA (e.g. simple portals) Build confidence with business owners Get experience building, deploying, and consuming services

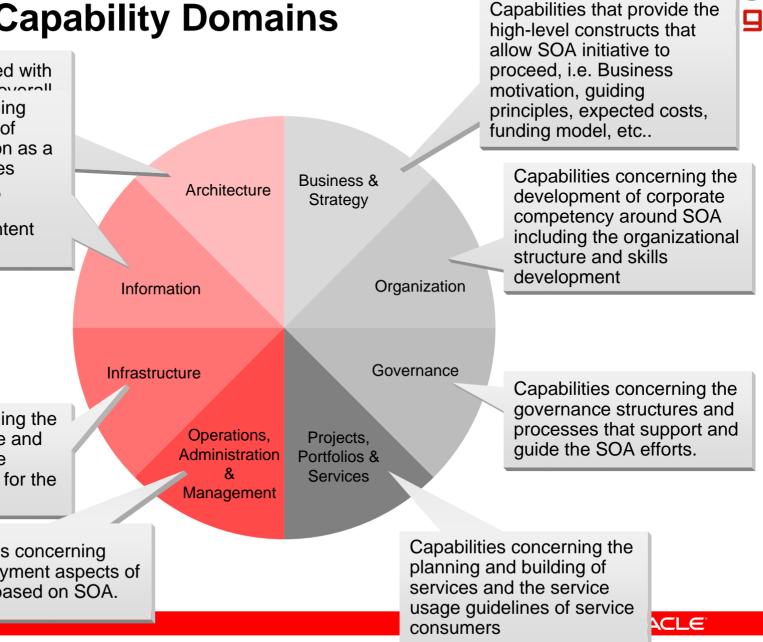
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SOA Capability Domains



Capabilities concerning the service infrastructure and tools that provide the technical foundation for the SOA initiative.

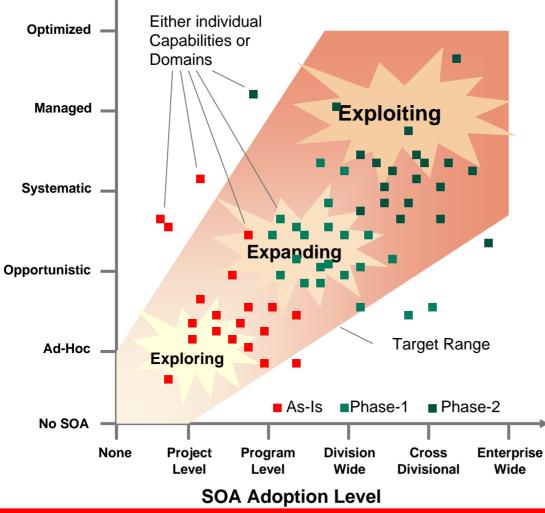
> Capabilities concerning post deployment aspects of solutions based on SOA.



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SOA Maturity Model Measures Maturity and Adoption



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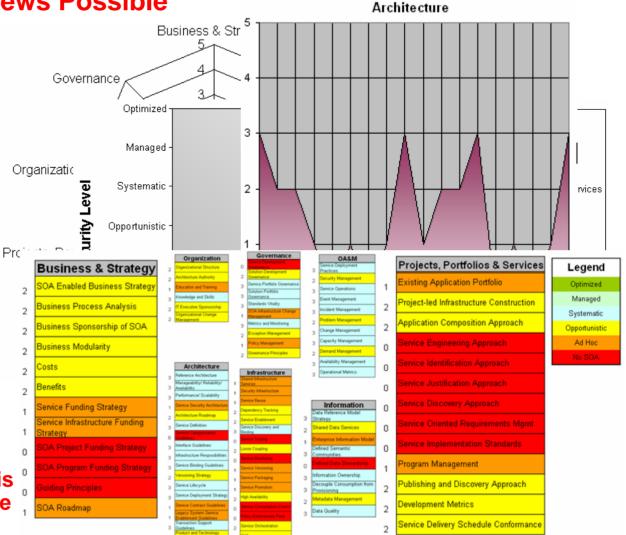
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Graphing SOA Assessment Results

Many Different Views Possible

- Spider Graph
- Scatter Plot
- Domain Detail
- Heat Maps
- Etc...

Select the graphics that convey the information that is most relevant to the audience



SOA Assessments



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• Full SOA Assessment

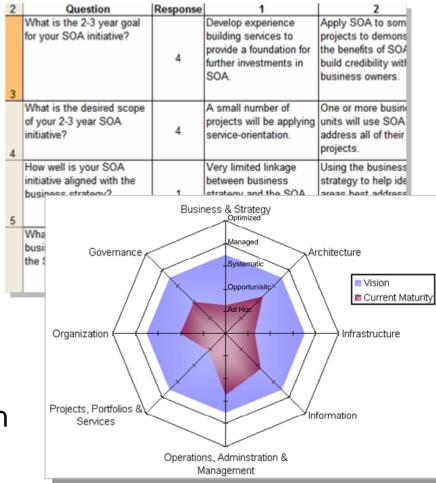
- Measures maturity and adoption
- Uses the full 90+ capabilities
- Roadmap building based on this assessment
- Short SOA Assessment
 - Easy to use for a self assessment
 - Only measures maturity
 - Selectively uses and combines capabilities from the full assessment
 - Online assessment uses this assessment
 - <u>http://www.oracle.com/technologies/soa/center.html</u>



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Exercise Short Assessment

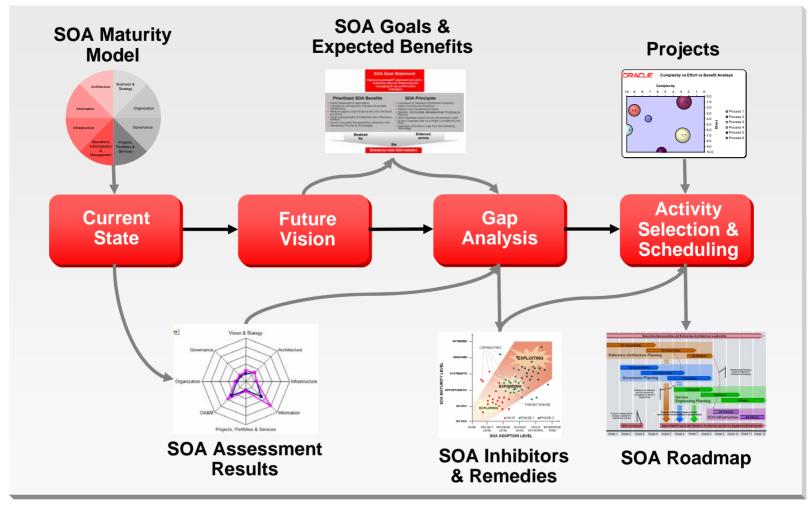
- The short assessment tool is based on answering 26 questions.
- The first two questions are used to set the 'vision' for the SOA initiative that is being undertaken by the organization.
- The remaining 24 questions evaluate the status of the initiative and encompass all eight capability domains within the SOA Maturity Model.



Roadmap Creation Process Overview



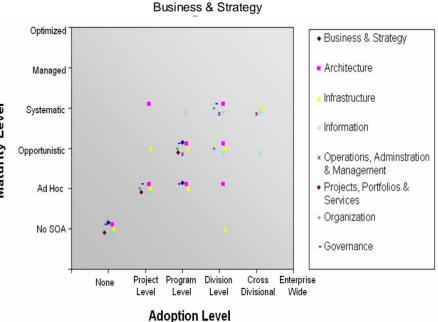






Understanding of the Current State

- Define the scope of the assessment
 - Ultimately the scope of the roadmap as well
- Participants are chosen to ensure that all capabilities within the SOA Maturity Model can be accurately scored
- Existing IT and SOA documents are reviewed
 - Ask more intelligent questions during interviews
 - Resolve inconsistencies via interviews
- Score each capability in the SOA Maturity Model for maturity and adoption



• Scores are analysed in the gap analysis phase

Future Vision SOA Vision Definition

- The SOA vision definition phase focuses solely on the high level goals and principles that will be used to guide and entire SOA initiative
- Detailed future vision is not something that must be created prior to creating an SOA Roadmap
 - Initial phases of the SOA Roadmap can create detailed vision



- What is goal of the SOA initiative?
- What is the organizational scope of the SOA initiative?
- What are the benefits that SOA is expected to deliver to the organization?
- What are the guiding principles for the SOA initiative?





Future Vision SOA Goal

SOA Goal Statement

Improve business/IT alignment and drive business value by measuring and managing to key performance indicators

Prioritized SOA Benefits

- Rapid Deployment of Applications
- Transition to a Responsive, Flexible & Extensible Infrastructure
- Ability to support cross functional and cross divisional processes
- Single Implementation & Enterprise-View of Business Services
- Service Granularity Recognized by a Business User
- Standardize Process & Technologies

SOA Principles

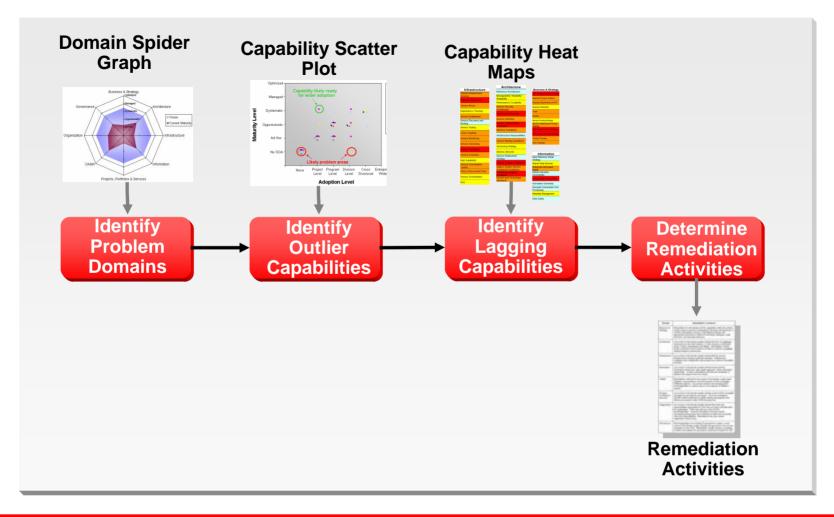
- Compliance to Standards (Enterprise & Industry)
- Data is owned by the Enterprise
- Support cross-functional processes
- Dynamic, Discoverable, Metadata-driven Processes & Services
- Utilize Standards-based Service Infrastructure Layer
- Access Disparate Data via a Single Consistent Access Point
- Separation of Business Logic from the Underlying Technology



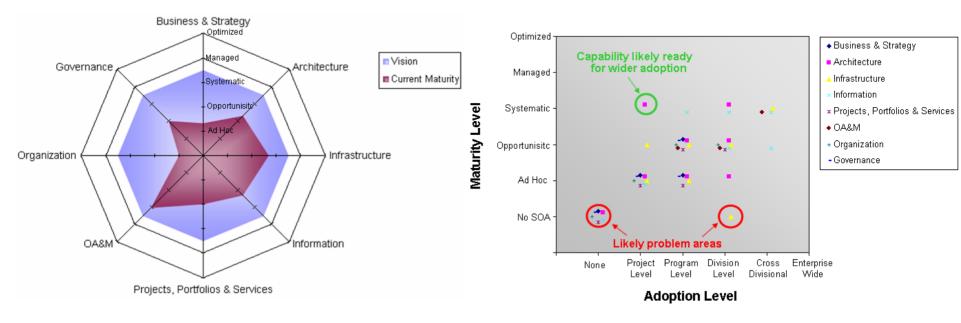




Gap Analysis Analyze Gap and Determine Remediation



Problem Domains and Outlier Capabilities



- Identify the domains that exhibit the largest gap between current maturity and the maturity needed to achieve the SOA goal
- Outlier capabilities are capabilities where the maturity and the adoption are significantly out of sync

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 Usually indicates a capability that should receive attention early in the roadmap

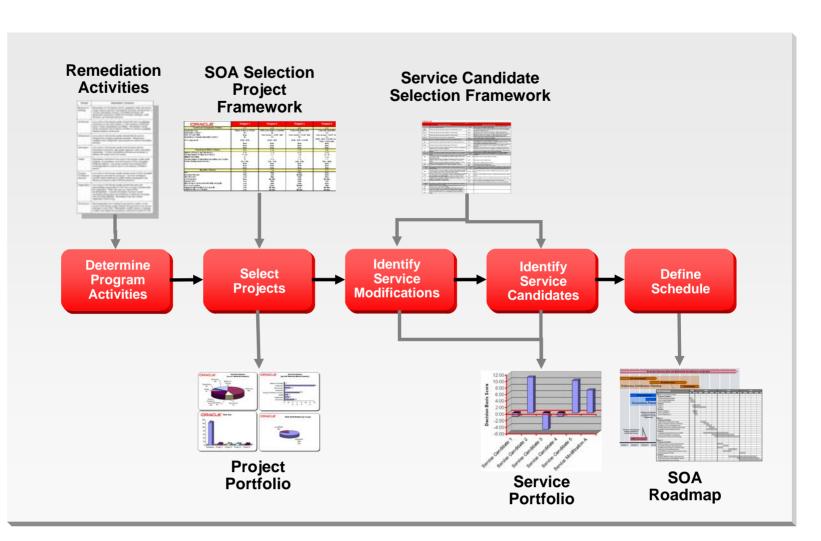


Lagging Capabilities and Remediation

- Capability heat maps can be used to visually identify low maturity capabilities
 - Not all capabilities are of equal importance for a particular organization
 - Capabilities may be deemed unimportant or not applicable
- Remediation activities have been identified to address the lagging domains and capabilities
- Remediation activities provide a primary input into the roadmap creation process

	Infrastr	ucture Architecture								
	Domain	Remediation Comments								
Legend	Business & Strategy	Remediation for this domain and the capabilities within this domain usually requires executive management decisions and directives. A common remediation activity is a facilitated workshop with appropriate executives to define the necessary strategies, make decisions, and formulate directives.								
Managed Systematic Opportunisti AdHoc	Architecture	Low scores in this domain usually indicate the lack of <u>a reference</u> architecture for the SOA initiative, or if the reference architecture exists, it lacks completeness and details. Remediation usually entails workshops with Enterprise Architects to specify <u>a complete</u> , detailed reference architecture.								
No SOA	Infrastructure	Low scores in this domain usually indicate that the service infrastructure is lacking significant elements. Infrastructure installation and configuration type projects are common remediation activities.								
	Information	Low scores in this domain usually indicate issues with the information architecture, data quality approach, and/or information stewardship. Common remediation activities are workshops to address the causes for the low scores.								
	OA&M	Remediation activities for low scores in this domain usually entail definition, documentation, and enforcement of SOA compatible OA&M procedures. Low scores could be due to lacking SOA knowledge/skills or could be due to a low maturity of OA&M in general.								
	Projects, Portfolios & Services	Low scores in this domain usually indicate a lack of SOA compatible management and delivery processes. Common remediation activities entail workshops to modify existing management and delivery processes to inject SOA best practices.								
	Organization	Low scores in this domain usually indicate that roles and responsibilities appropriate for SOA have not been instituted within the organization. There may also be a lack of SOA knowledge/skills. Common remediation activities include developing training plans and workshops to define the necessary roles and responsibilities. Remediation may also require organization restructuring.								
	Governance	Most organization have existing IT governance in place, so low scores in this domain usually indicate that governance has not been extended to cover SOA. Remediation usually requires a workshop to define and institute the governance extensions required for SOA.								

Activity Selection & Scheduling





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Roadmap Creation Determine Program Activities



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Cultural resistance is often the primary reason for failure in enterprise IT endeavors. If your adoption posture is incremental, you will lessen the impact on your organization, customers, and partners so they can assimilate change gradually.

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Governance

The Seven Steps to SOA Nirvana, Tom Termini, January 2009

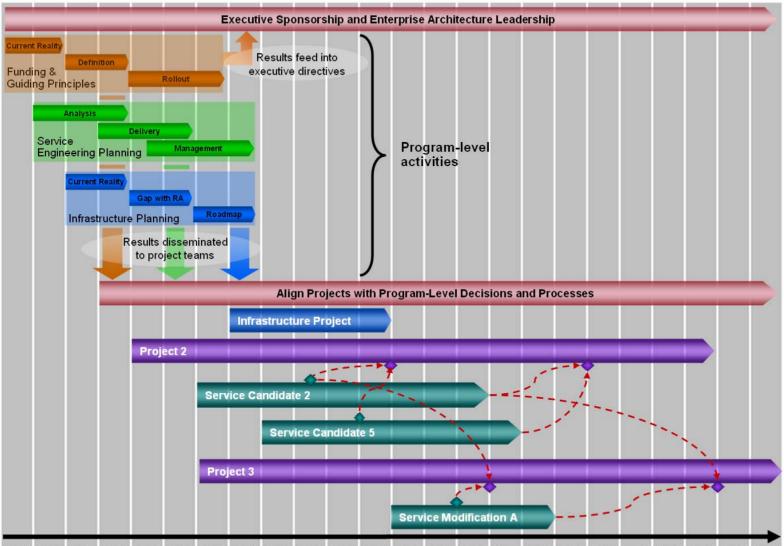
must

- Be long enough to accomplish some meaningful progress
- Be short enough to minimize risk
- Maintain a continuous pace of incremental progress
- Iteration must not exceed organization's ability to absorb that change

□ Current ■ Phase 1 □ Phase 2 □ Phase 3



Example SOA Roadmap Phase 1 Schedule



Wook1 Wook2 Wook3 Wook4 Wook5 Wook6 Wook7 Wook8 Wook9 Wook10 Wook11 Wook12 Wook13 Wook14 Wook16 Wook17 Wook18 Wook19 Wook20 Wook21 Wook22 Wook23 Wook23 Wook24

Example SOA Roadmap Subsequent Phases



SOA Roadmap			2	009			20	10		2011			
oorritoaannap	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Phase 1 (see detailed schedule)													
Program Activities													
Eunding and guiding principles													

Measure progress and communicate results. The successful implementation of any SOA must be driven from the top down. This means gaining early wins that engage senior management. Define three or four metrics and regularly communicate results.

The Seven Steps to SOA Nirvana, Tom Termini, January 2009

Establish a core set of integration tools							
Establish infrastructure standards enforcement							
Evangalize benefits realized from SOA				1			1
Projects							
Portal infrastructure project							
Integrated, portal based interface for CRM							
Retrofit Fresh Digital to leverage SOA							
Decouple UIs from back-end technology							
Phase 3							
Program Activities							
Define procedures for data model extensions							
Re-architect backend to limit data latency							
Establish test procedures for composite apps							
Implement security auditing practices							
Foster BPM tool usage to define business reqmts							
Create charge-back models							
Projects							
BPM infrastructure project							
Integrate fullfillment systems and warehouses							
Automated workflow order fullfillment system							
Legacy augmentation and sunsetting							



Conclusion



- SOA Roadmap encompasses
 - Program level activities
 - Project activities
- SOA Roadmap should be based on facts
 - Ensures that the roadmap is accomplishing the goal of the SOA initiative
 - Tackle largest inhibitors early
 - Focus on early wins to build momentum
- SOA is a journey of discovery and learning
 - Iterative approach required
 - Evaluate and adjust regularly



