



POPKIN SOFTWARE

**TOGAF Tool Support Briefing –
System Architect**

Matt Smith, Architecture Consultant

Popkin: 16+ Years of Enterprise Architecture

- **Founded 1986**
- **To provide comprehensive, scaleable, and reliable enterprise architecture and modeling tools.**
- **60,000+ licenses sold since inception**
- **Global presence**
 - Offices: New York, Washington DC, United Kingdom, Europe
 - Worldwide distributor network



Popkin's Approach to Enterprise Architecture and Modeling

- **Use multiple** methodologies
- **Build on** industry-standard techniques
- **Share** common vocabulary **via central repository**
- **Deliver** concordance **of views**
- Bridge **business-IT** gap



Achieve Consistency and Reuse

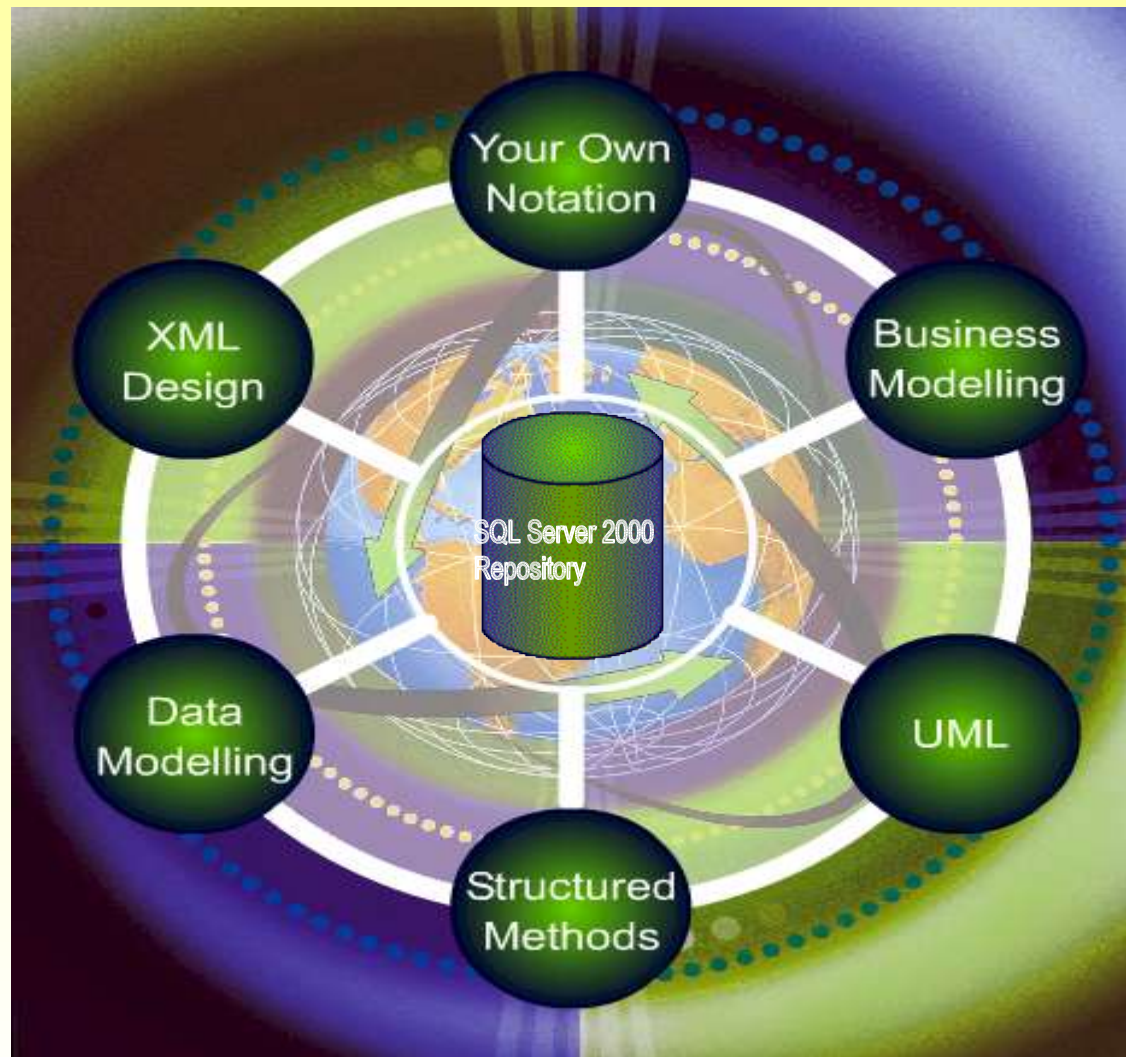
- **Coordination. Concordance of views provides same set of information from different perspectives.**
- **Collaboration. Offers multi-user support and data sharing; promotes global development standards.**
- **Customization. Supports tailoring of framework to meet unique system requirements.**



System Architect & TOGAF



System Architect



Why Tool Support?

- TOGAF **and** a shared System Architect repository gives you the ability to *bring the architecture to life...*
 - Improved quality, currency and completeness of information
 - Integration of models and textual material
 - Ability to navigate the information
 - Ability to analyze across architecture domains and business areas, hence ...
 - Better-informed management of change and improvement
 - Information content and style defined by a corporate metamodel, hence no gap between the visual representation and the textual definition, hence ...
 - Improved communication between business, IT and other stakeholders

→ The ultimate goal ... improved business-IT alignment



Popkin SA Certificate for TOGAF 7 Tool Support



SA CSQ

<http://www.opengroup.org/certification/togaf7/csqs/TS1001q.html>

SA Certificate

<http://www.opengroup.org/certification/togaf7/certs/TS1001c.pdf>

System Architect / TOGAF Interface




Status

- TOGAF 7 fully supported in System Architect v9.1
 - Available end of July 2003
- TOGAF 8 support scheduled for September 2003.



Disparate Business Information

Business Goals



Use Case

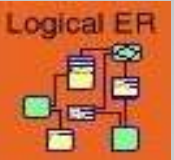


Item	Description
1	Student has digital ID/ID card
2	Student Accesses a Federal Field (The student accesses the school database the Student Council Secretary input Fall data)
3	SA (COO) Accepts Enrollment Data from School
4	School Downloads the Fall Faculty and At the beginning of each school year
5	Student Reviews the Fall Query. There are several ways to...

Process Inventory

System Name	Start Date	System Description
Business System	01/01/01	It is replaced by 1000...
HR System	01/01/01	It is replaced by 1000...
Customer Service System	01/01/01	The delivery system is a...
Inventory System	01/01/01	Consistent inventory system to manage...
Project Management Data Mgmt.	01/01/01	SAEM 4 being created to support mgt...
Invest Loan Commission System	01/01/01	SAEM 4 being created to support mgt...
10:11 Case Mail	01/01/01	SAEM 4 being created to support mgt...
Invest Loan Origination System	01/01/01	It is replaced by 1000... 10:11 prod

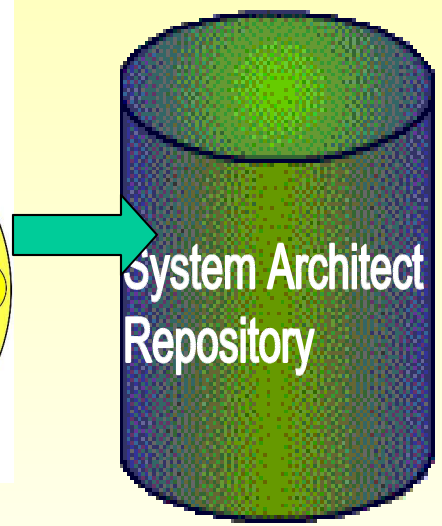
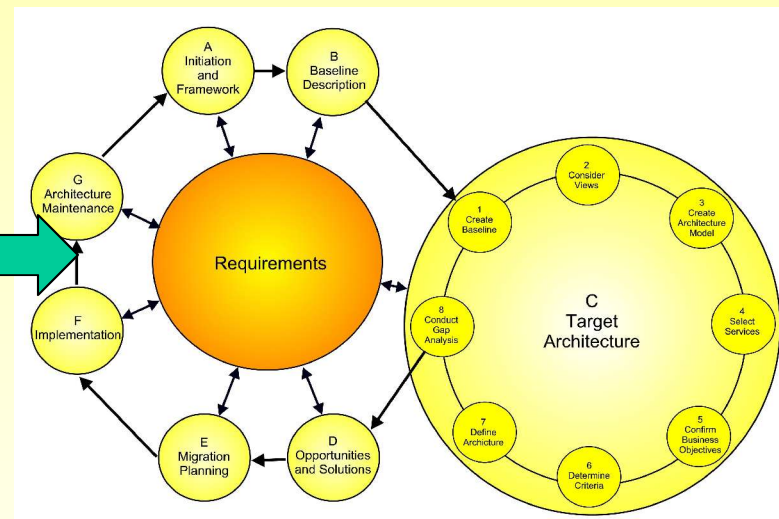
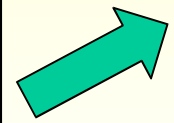
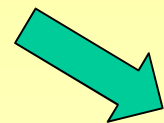
Application Inventory



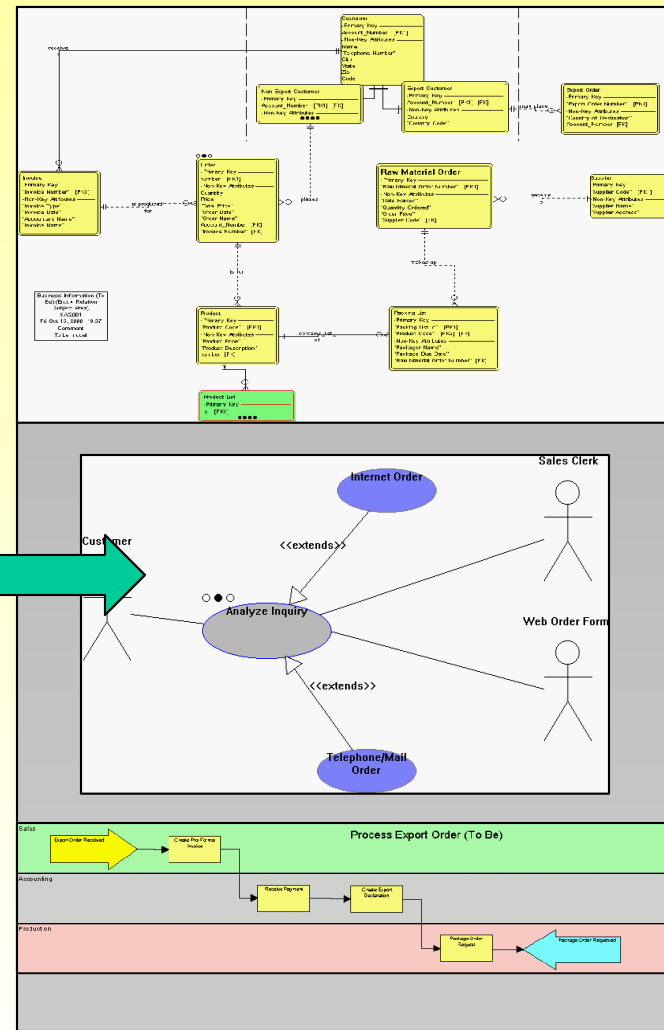
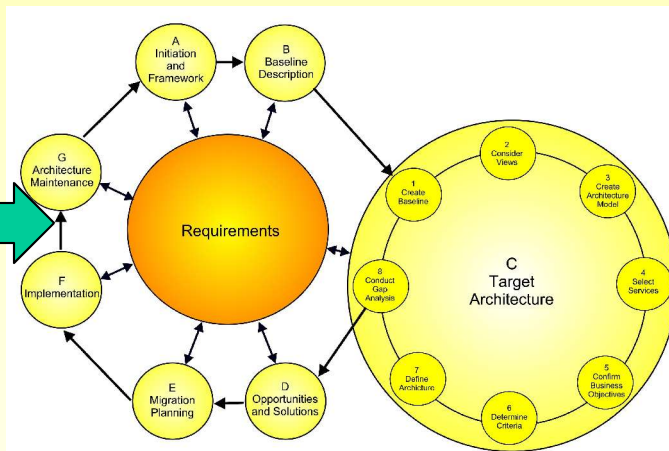
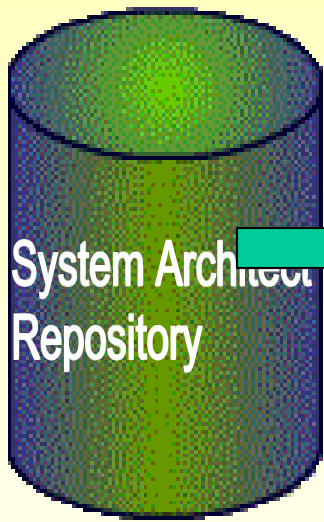
Logical ER

Construction Patterns





Meaningful, Integrated Business Information





Dictionary Object - Request for Architecture Work - Popkin Request for Architecture Work - Jan...

Name: Popkin Request for Architecture Work - Jan 2003

Introduction | The Organization | Constraints | Current System and Developing Organization

Organization Sponsors: Chief Information Officer

Mission Statement: Popkin Software's corporate mission is to provide the marketplace with powerful, flexible and affordable business and application modeling and design tools. Jan Popkin, co-founder and CEO of Popkin Software states, "Our whole philosophy is that

Strategic Business Plans: Popkin Software is focused on providing the market with a comprehensive and scalable suite of tools that meets the entire needs of an organization at each stage of the business or application development or re-development process. To fulfill this

Business Goals/Changes:

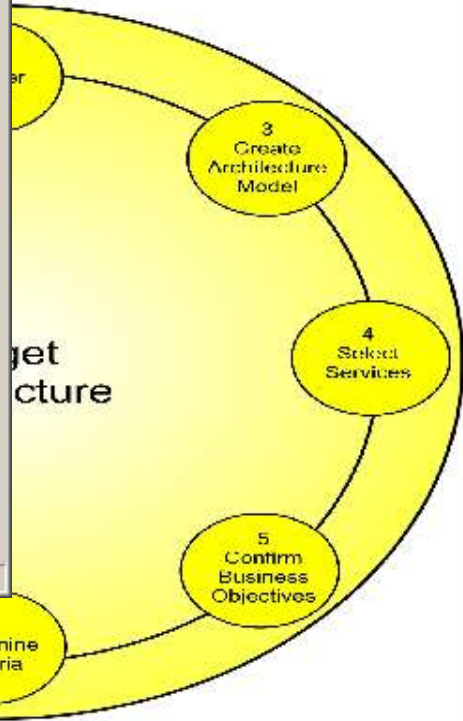
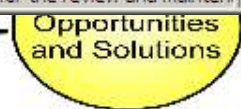
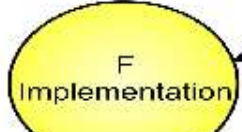
- "To provide a comprehensive a
- "To provide a comprehensive a
- "To deliver high quality tools for

Buttons: Add, Modify, Remove, Define, Check, Choices...

OK | Cancel | Spell | Delete

Executive-level group responsible for the review and mainten. | Text | Len: 80

Migration Planning | Opportunities and Solutions





Dictionary Object - Business Architecture - Popkin Business Architecture - Version 1

Name: Popkin Business Architecture - Version 1

Introduction | Baseline | Baseline (TOGAF Terms) | About the Business | Candidate Building Blocks | Assumptions

Business Requirements

"Must be available 24x7"

"Must be available 24x7"

Add Modify Remove

Define Check Choices...

Business Processes

"Develop new product"

"Develop new product"

"Receive new stock"

"Announce new product"

Add Modify Remove

Define Check Choices...

Key Business Drivers

"Competition in tool market place"

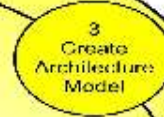
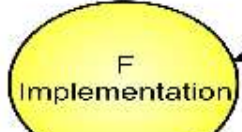
"Competition in tool market place"

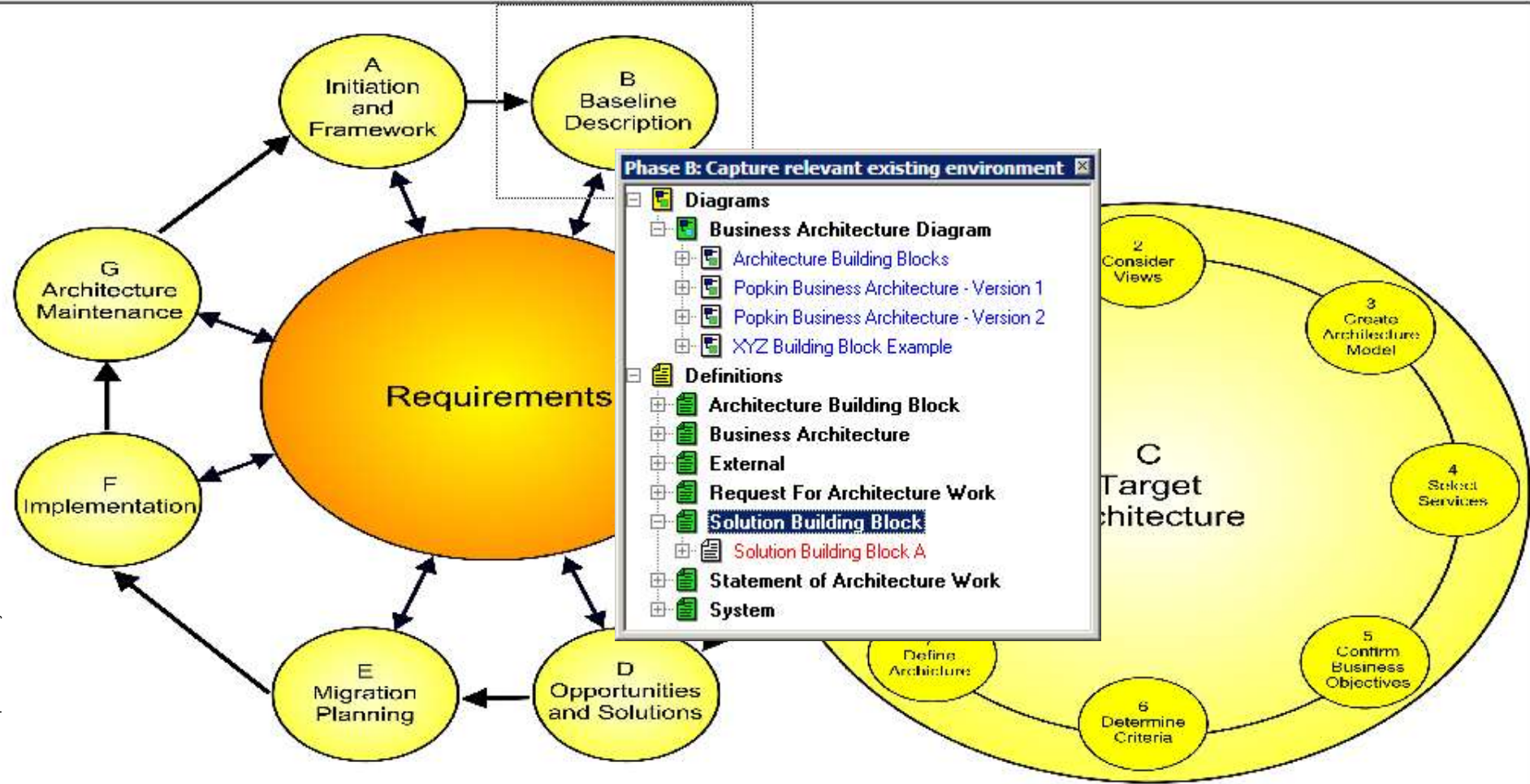
Add Modify Remove

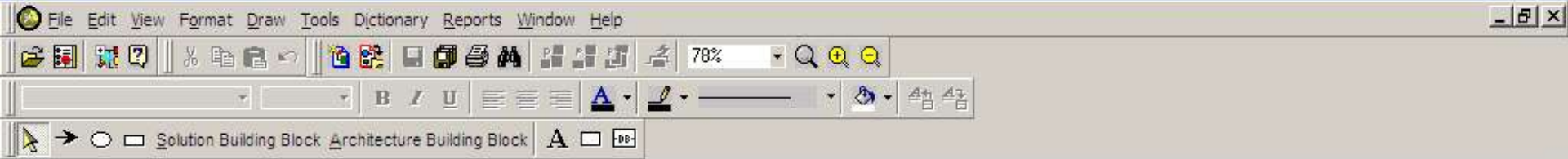
Define Check Choices...

OK Cancel Spell Delete

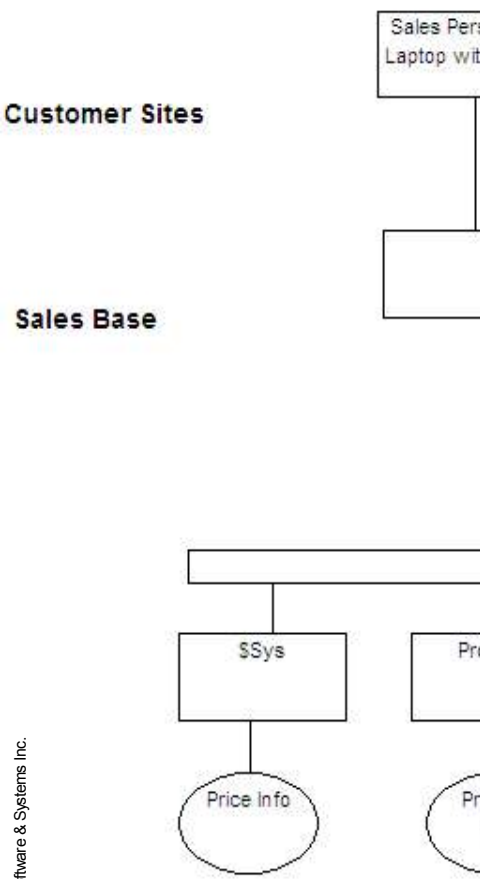
Name Len: 80







Model of Candidate Building Blocks Augmented with Technical Functionality



Dictionary Object - Solution Building Block - Solution Building Block A

Name:

Introduction | SBB Details

Supplier (or In-house):

Mappings

Mapping to ABBs	Mapping to Requirements
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

Buttons: Add, Modify, Remove, Define, Check, Choices...

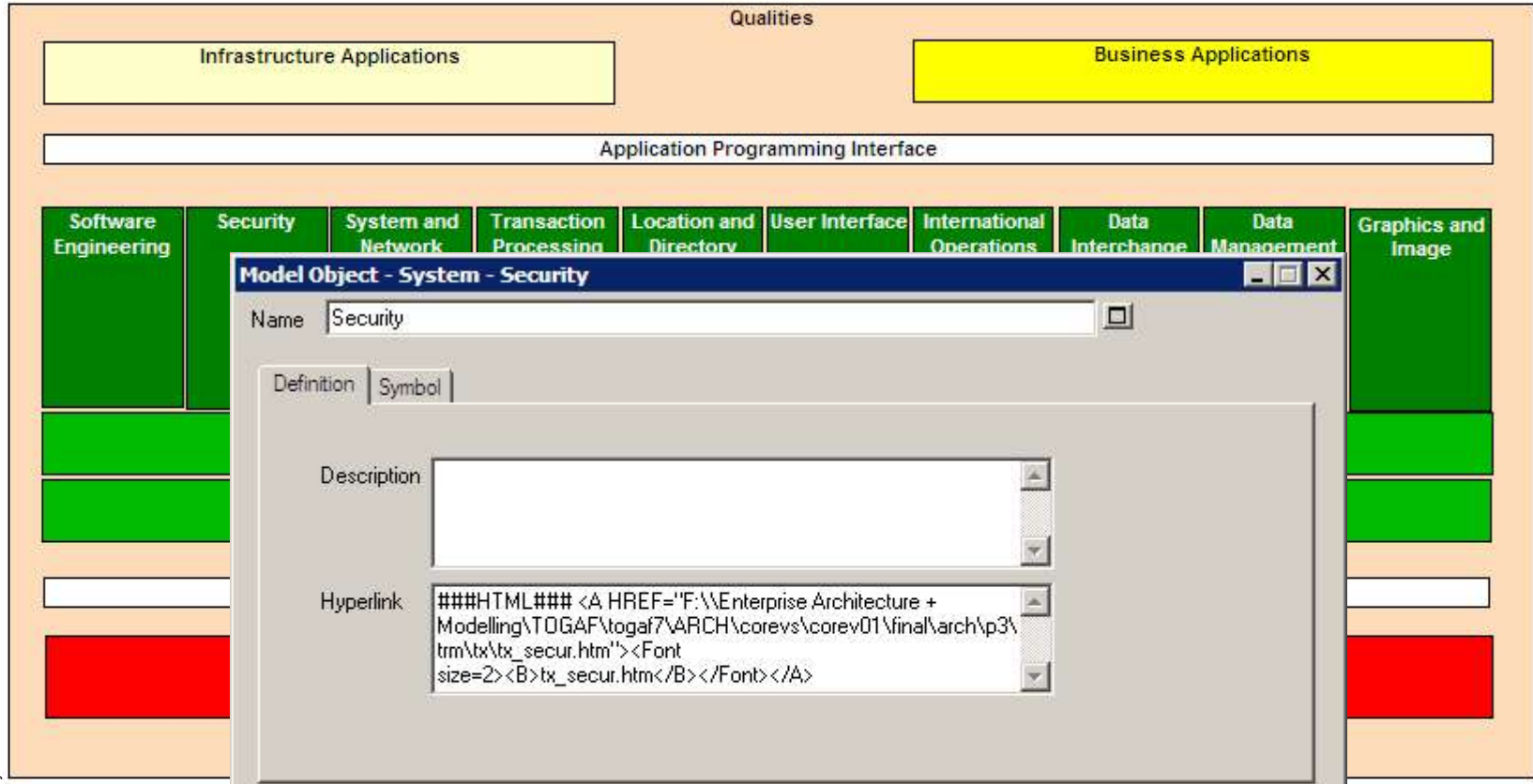
Footer: Name Len: 80

File Edit View Format Draw Tools Dictionary Reports Window Help

60%

Architecture Building Block

TOGAF 7 Technical Reference Model



Model Object - System - Security

Name: Security

Definition | Symbol

Description:

Hyperlink: `###HTML### tx_secur.htm`

OK Cancel Spell Delete

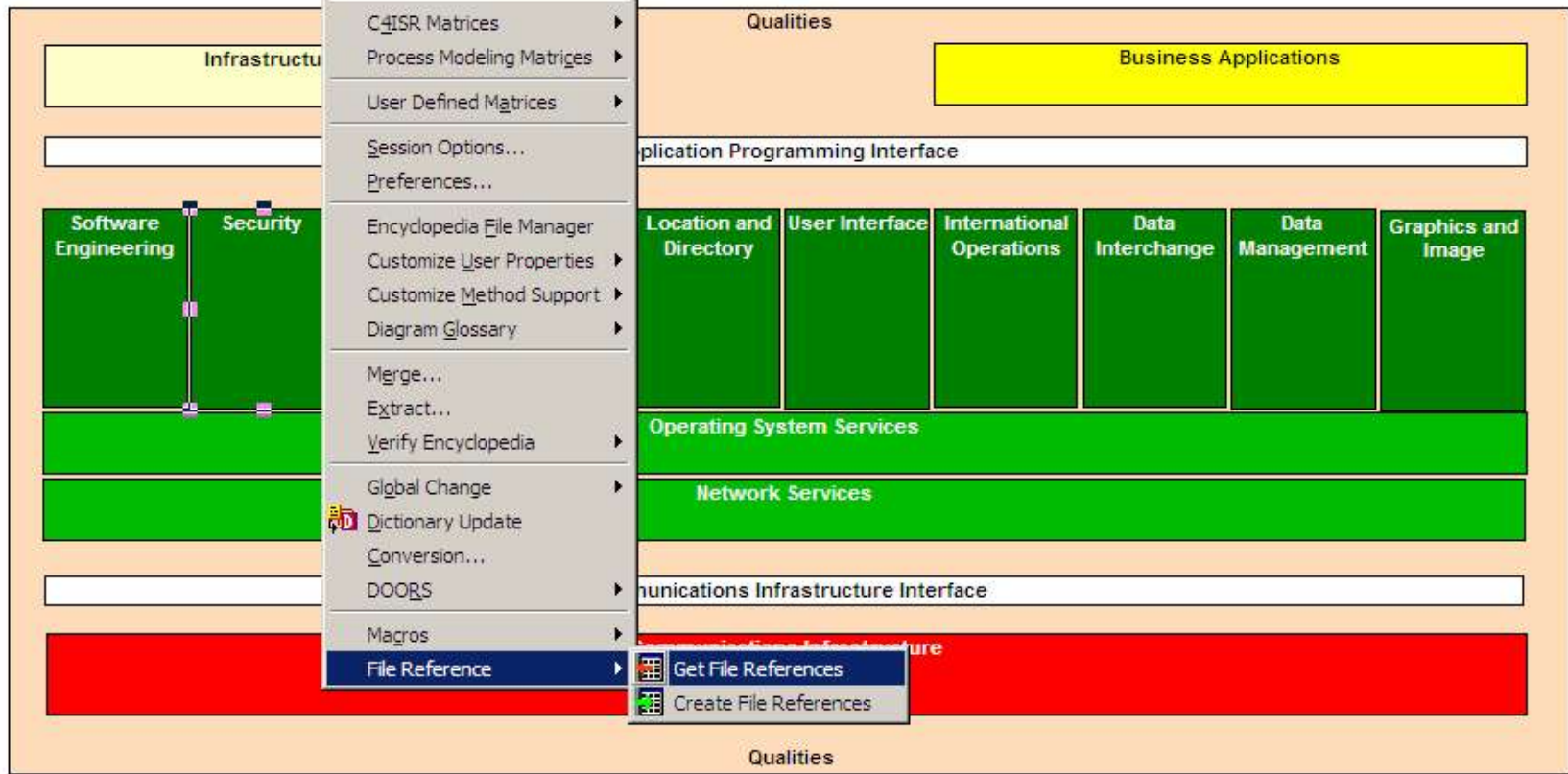
Name Len: 80

Arial 14

- Code Synchronization
- XMI
- 4GL Interface
- DB Schema Generation
- DB Reverse Engineering
- DB Synchronization
- C4ISR Matrices
- Process Modeling Matrices
- User Defined Matrices
- Session Options...
- Preferences...
- Encyclopedia File Manager
- Customize User Properties
- Customize Method Support
- Diagram Glossary
- Merge...
- Extract...
- Verify Encyclopedia
- Global Change
- Dictionary Update
- Conversion...
- DOORS
- Macros
- File Reference**
 - Get File References
 - Create File References

60%

Technical Reference Model





[PART I: Introduction](#) • [PART II: ADM](#) • [PART III: Foundation Architecture](#) • [PART IV: Resources](#)

The Open Group Architectural Framework Version 7

Secondary Index

[Back to Part III index](#)
PART III Foundation Architecture: Technical Reference Model (TRM)

[Concepts](#): Role, components of the TRM, using other TRMs

[High-level](#)

[Breakdown](#): Major TRM elements

[TRM in Detail](#):

Platform service categories, External Environment sub-entities

[Application Platform Taxonomy](#): Basic

principles; summary of services and qualities

[\(Index to\)](#)

[Detailed Platform Taxonomy](#): Index to

detailed taxonomy of platform services and qualities

Security Services

Security services are necessary to protect sensitive information in the information system. The appropriate level of protection is determined based upon the value of the information to the business area end users and the perception of threats to it.

To be effective, security needs to be made strong, must never be taken for granted, and must be designed into an architecture and not bolted on afterwards. Whether a system is standalone or distributed, security must be applied to the whole system. It must not be forgotten that the requirement for security extends not only across the range of entities in a system but also through time.

In establishing a security architecture, the best approach is to consider what is being defended, what value it has, and what the threats to it are. The principal threats to be countered are:

- loss of confidentiality of data
- unavailability of data or services
- loss of integrity of data
- unauthorized use of resources

Counters to these threats are provided by the following services:

- **Identification and authentication** services provide:
 - identification, accountability and audit of users and their actions
 - authentication and account data
 - protection of authentication data
 - active user status information
 - password authentication mechanisms
- **System entry control services** provide:
 - warning to unauthorized users that the system is security-aware
 - authentication of users



Dictionary Object - Impact Analysis - Popkin IT Architecture Impact Analysis

Name:

Introduction | Migration Planning | **Implementation Recommendations**

Implementation Recommendations

Effectiveness Measures

Risks

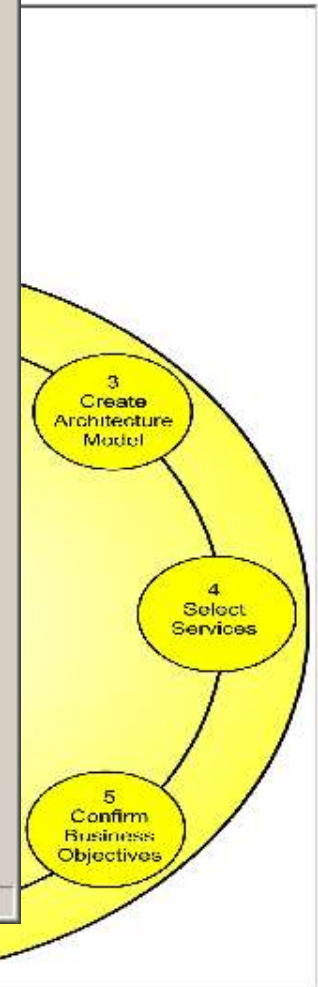
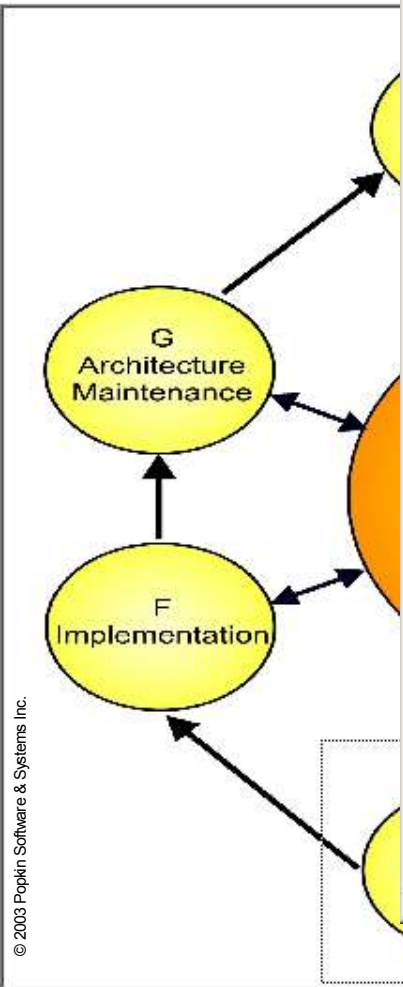
Issues

SBBs

"Solution Building Block A"

"Solution Building Block A"

Name Len: 80



Summary

- The Creation of an Enterprise Modeling Environment brings the power of **information** to your company as an important **resource** for maintaining your lead
- You need to understand your information in a way that is **coordinated** and **integrated** with your strategic and operational plans
- System Architect facilitates the development and management of a live architecture
- System Architect instantiates the process, vocabulary and governance of TOGAF



Conclusion

- Developing Architectures is not rocket science
- The building blocks already exist in your business
- You just need to integrate them in one place
- The architecture needs to be accessible to all stakeholders, using a common format, standards and the use of a common vocabulary
- It needs to be seen to meet the business requirements
- Actually, it's just common sense!!





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Thank you

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