Patterns for e-business



John Lord SWG Strategy



Architectural Standards





 Patterns document the details of the architecture that works and can be reused across applications.
They have been developed in an evolutionary manner.

Architectural Standards:

- Guide designers
- Provide assurance of quality
- Simplify design process
- Assure structural integrity
- Enable the utilization of standard components



Patterns for e-business

What Are They?

- repository of successfully implemented designs
- source of information for architects and developers
- distillation of the collected wisdom of IBM, partner, and customer IT architects – tested & proven
- code samples and representative implementations



ibm.com/developerworks/patterns

Patterns for e-business

- What aren't they?
 - a complete road map to build applications
 - architectural imperatives for success
 - vision of what might be in the future





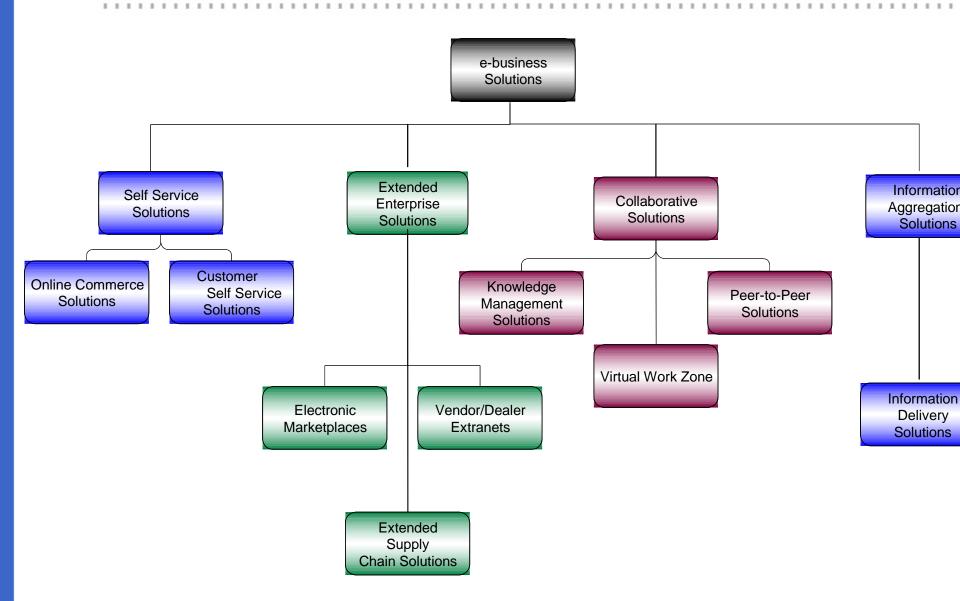
Business Value



- Large Grain Business Patterns
- Repeatable Architectural Paths
 - provide understanding as you develop and deploy key business applications
- Based on tens of thousands successful e-business engagements
- Speed implementation, and reduce risk



Today's e-business Solutions





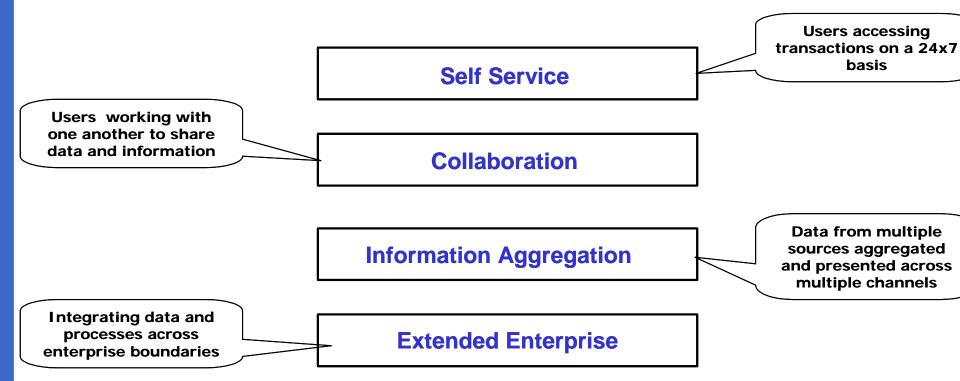
to provide the smallest number of Patterns for e-business which will allow IT architects in 80% of cases to quickly develop 80% of their required infrastructure by the reuse of proven :

- architecture patterns
- design patterns
- runtime patterns
- AD and SM patterns
- design, development and deployment guidelines
- code

 to provide IBM software (and hardware) development architects with a finite number of well-defined requirements which they can use to optimise their product components

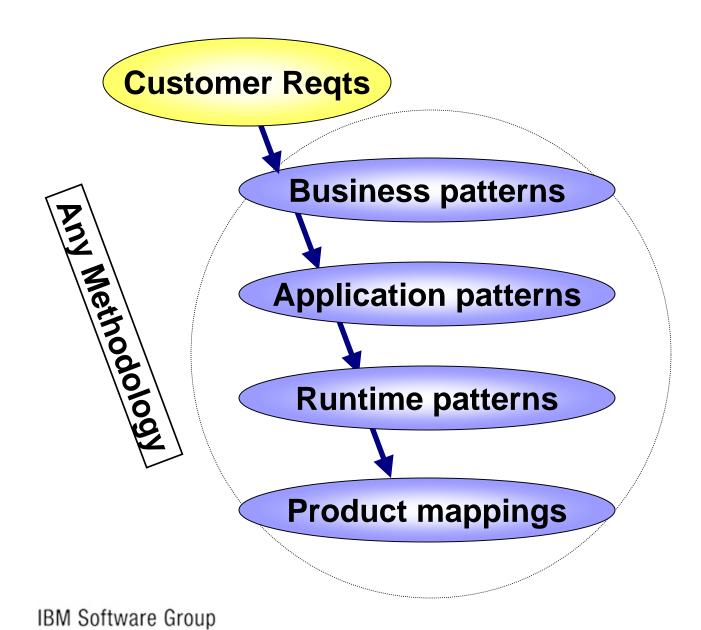
Business Patterns

Business Patterns are the basic building blocks for solutions





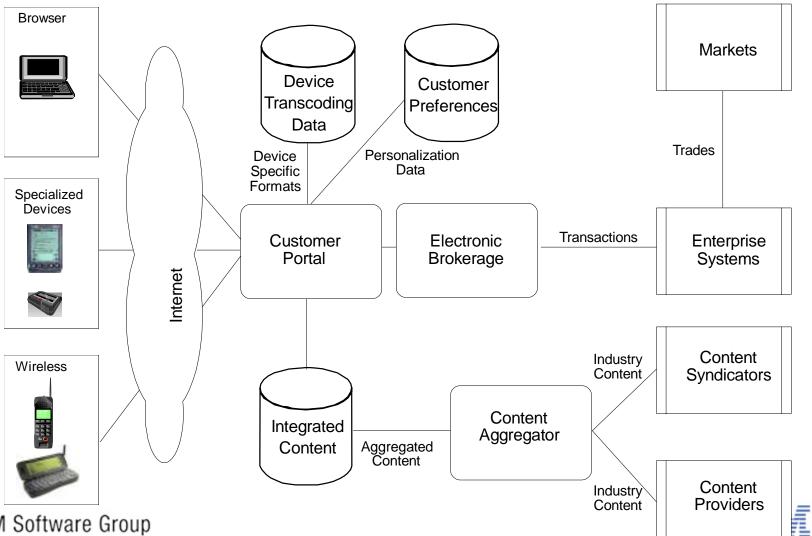
Simple, Compelling, Prescriptive approach



IBM

On-line Brokerage

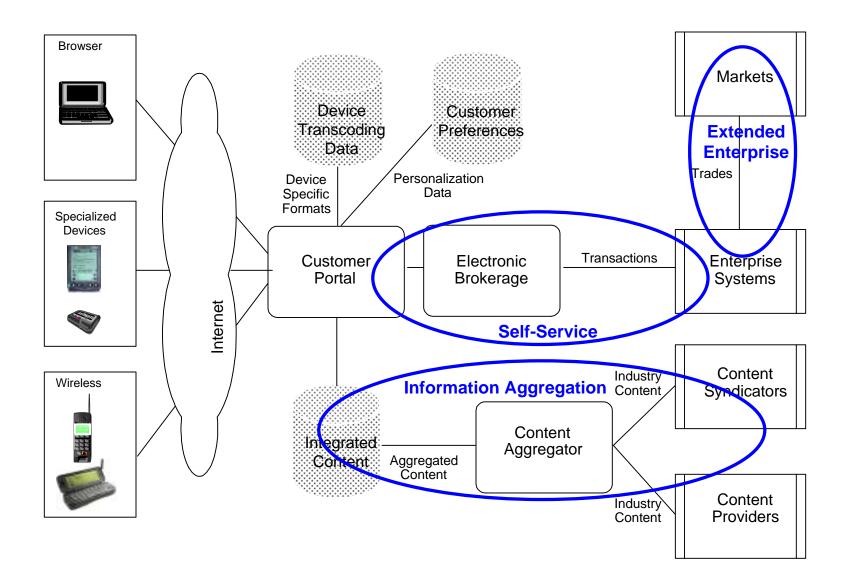
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Online Brokerage

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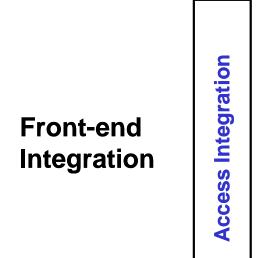


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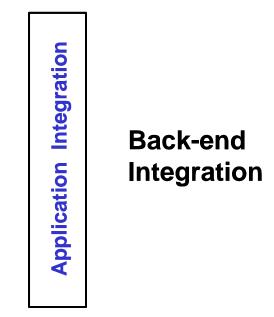
Integration Patterns provide the glue to combine Business Patterns to form solutions



Provide seamless and consistent access to business functions.

Typical functions provided include Single-signon, Personalization, Transcoding etc.

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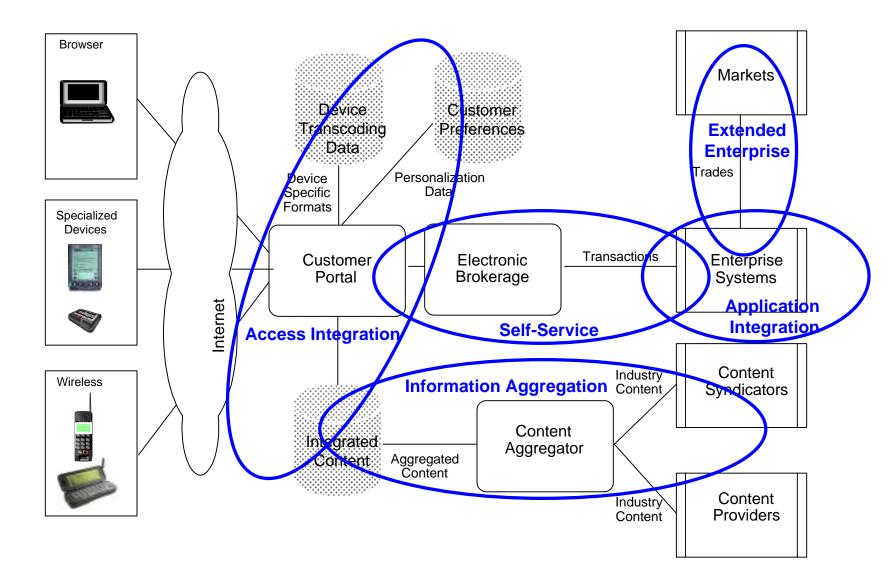


Connect, Interface or Integrate databases and systems

Typical integration can be based on Function, Type of Integration, Mode of Integration and by Topology



Online Brokerage



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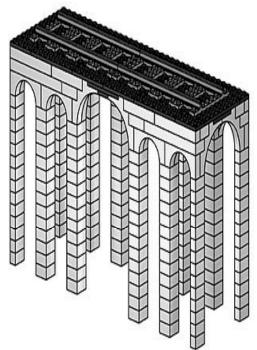


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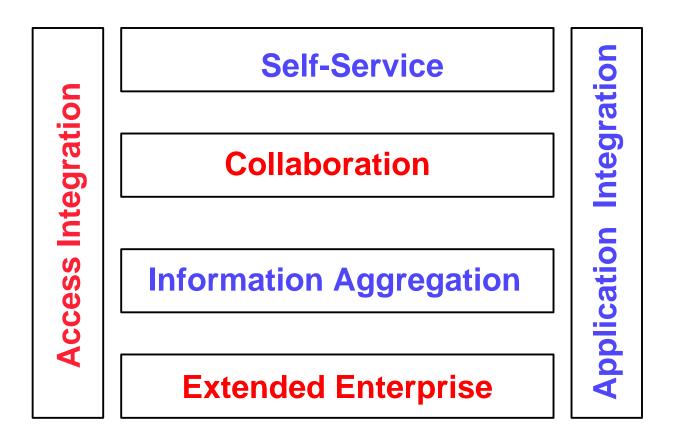
What about more complex problems?

- Introducing Composite patterns
 - These patterns are composed of Business patterns and Integration patterns assembled to form higher level solutions
 - > The Composite patterns that we have identified
 - Account Access
 - Electronic Commerce
 - Portal
 - Buy-side Hub
 - Sell-side Hub and
 - Trading Exchange
 - These Composite patterns are observed behind many of today's application software, such as:
 - Siebel Enterprise
 - Ariba DynamicTrade
 - □ PlumTree Portal Server etc.
 - Composite Patterns are just like Business patterns and can be refined into the Application patterns and Runtime patterns





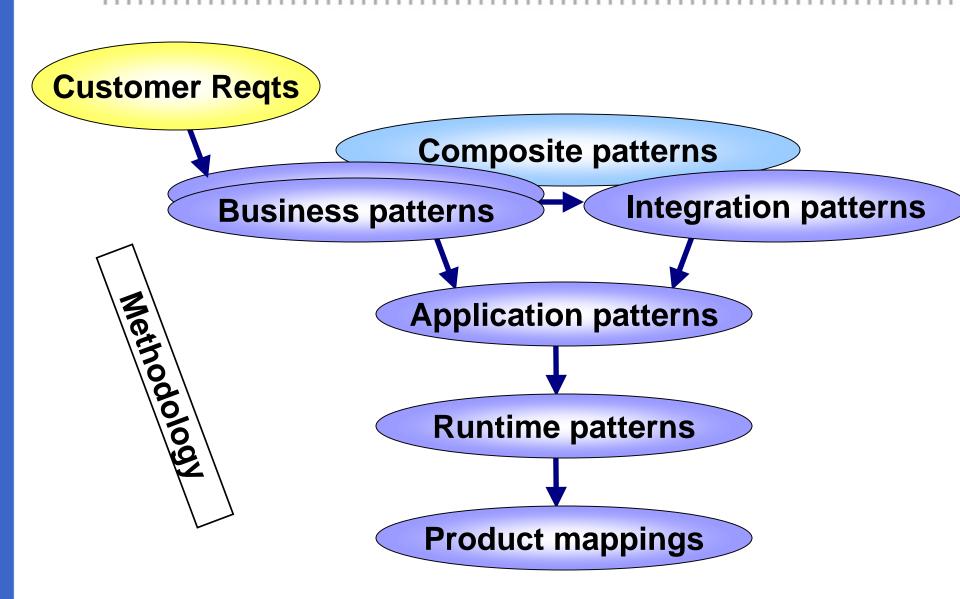
Composite pattern for Electronic Commerce solutions



Blue – Mandatory Business patterns Red – Optional Business patterns - Variations

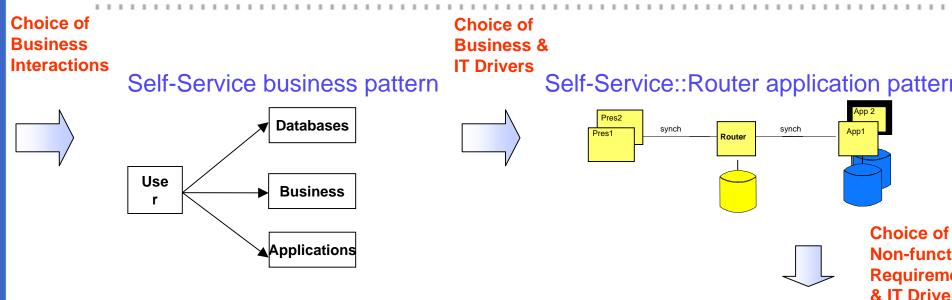


Re-engineered Patterns

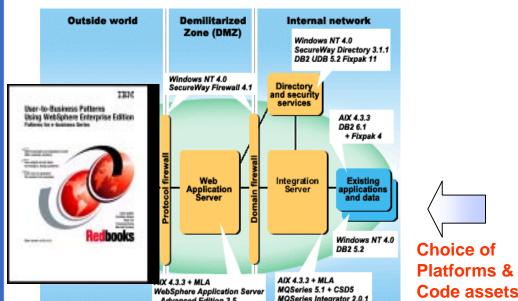




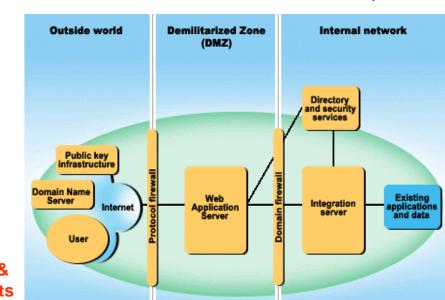
Approach 1 – Solution based on a single Business pattern



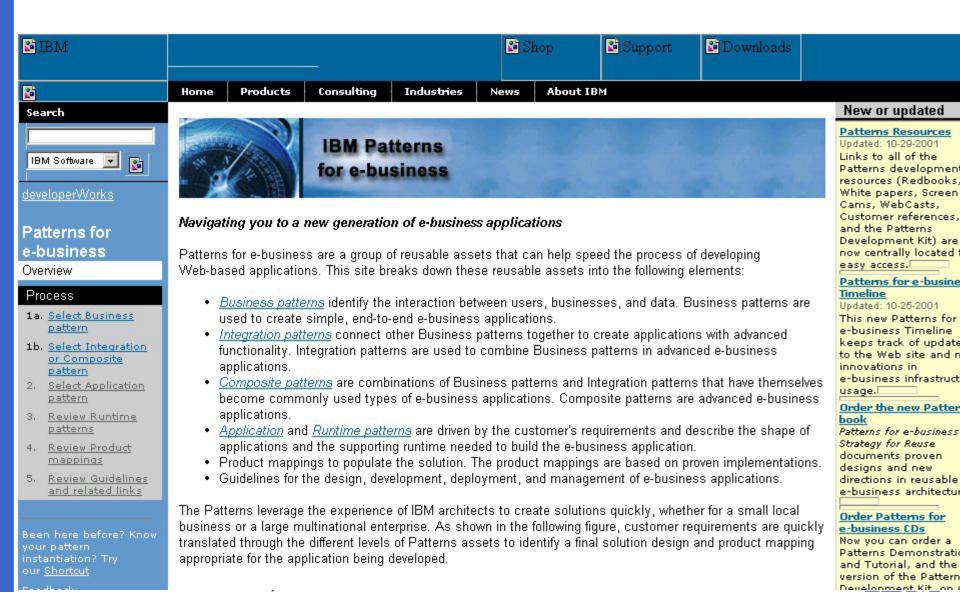
Self-Service::Router product mapping



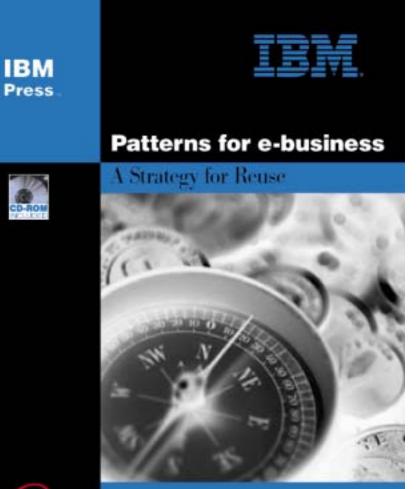
Self-Service::Router runtime pattern



Patterns Web Site



Where can I find out more ?





Jonathan Adams, Srinivas Koushik, Guru Vasudeva, and George Galambos

IBM Software Group

"These patterns will give you the wherewithal to put your business online with a minimum of reinvention, expense, sweat, blood, and tears. "

John Vlissides

IBM T.J. Watson Research

"... I can recommend it to every level of IT professional--from the CIO down to the programmer."

Robin Bloor

CEO

Bloor Research

" If you are trying to figure out what your company can do to make the best use of the Internet, this is the place to start. "

Paul Harmon

San Francisco, California

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