

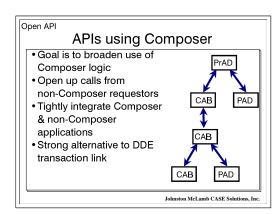
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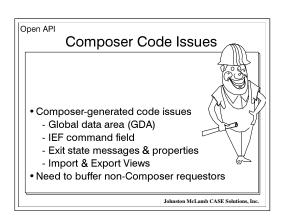


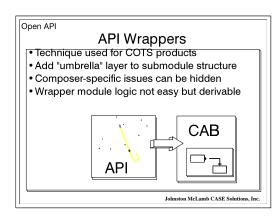
API Concepts

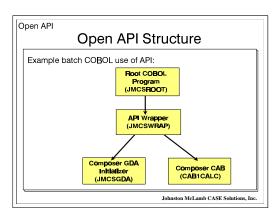
- APIs used in operating systems
 Promotes rapid re-use of tested functionality
- Parameters are "message contracts"
- Internal logic & data is hidden
- Easy, rapid maintenance possible

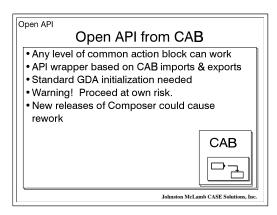












Open API

Open API Change Control

- Make message contracts upwardly compatible
- Consider passing expected API version number
- Design in flexibility up front
- Client DLL changes easier if on LAN Servers
- Keep formal inventory of message contracts
- Track API call usage

Component Based Development

- JMCS approach is different
- Uses fully encapsulated OO-like components
- Openness of components is key
- API ability an important feature
- More powerful than model-based development



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Open API

Business Benefits of OO

- Why are Organizations excited about OO?
 - Component-based development (first re-use, then buy, then build components)
 - Behavior of Object part of each Object's definition
 - Minimize Object definition work throw levels of inheritance (ensures consistency)
 - Stability with Flexibility over time (customize only where needed)

Open API

Business Benefits of OO

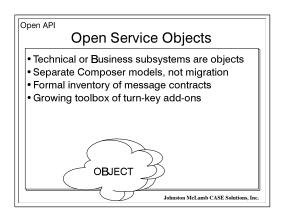
- Encapsulation minimizes Development Coordination issues
- Rapid maintenance and enhancement of application systems based on internally-built or purchased components
- Containment of Testing Issues
- "Middle-out" approach to Enterprise-Wide Re-engineering

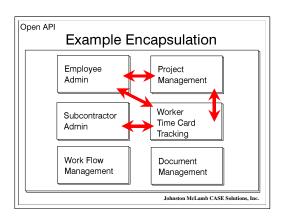


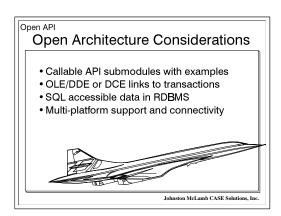
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Open API Current Situation with Composer 3

- Great I-CASE tool (perhaps world's best)
- Supports wide range of project sizes
 Able to generate large-scale, integrated, high-performance mission critical applications
- Able to generate for wide variety of computer technologies (hardware & software, GUI client/server, distributed, etc.)
- Can dramatically improve development and maintenance productivity
- Based on IE fundamentals (ERD, PHD, DLG)
- How do we use it today for OO-like results?







Open Client/Server • Many possibilities in open architecture • Client side can use APIs, OLE/DDE, DCE - common edit checks, local data - office automation integration • Server side can use APIs, OLE/DDE, DCE - real-time bridges or queues - cross-subsystem integration • Asynchronous parallelism also possible

Open API Keys to OO with Composer



- Define large-grained subsystem objects At end of BAA1 scope both technical and business objects
- Use multiple isolated models in Production
- OO messaging can't replace SQL

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End of Presentation

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