

Saving Money in the Enterprise With OpenCms

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Quick Overview

Content

- CME Background
- Why OpenCms
- What we are doing
- Where are we going

Format

- Questions are good
- My German ist nicht so gut



What is the Enterprise?

- Large company
 - Defined by employees
 - Defined by \$\$\$
 - Defined by complexity
- Pay for 'Enterprise Licenses'
 - 'Enterprise Support'
 - 'Quality'
 - ... Someone to blame





What is CME?

- Background on CME
- World's largest and most diverse derivatives exchange
- Over 10 million contracts traded daily with notional value of hundreds of billions of dollars
- cmegroup.com is the medium for marketing messages and data distribution
- In 2006, purchased Chicago Board of Trade, 2008 purchased NYMEX with practically all operating cash (no debt)



Timewarp

- 2001 Purchase of a licensed CMS Solution
 - Percussion Rhythmyx v4.0
 - List price of ~\$500K (US) for one production license, one disaster recovery license, one QA license, and the 'developer studio'
 - License for version 4.x. future versions would cost additional
 - ~\$80K (US) annually for support
 - Additionally budgeted on average \$40K annually for consulting services
 - Required a dedicated Sun 440 Server for each environment ~ \$10K (US) per server
 - Open Source solutions not even considered



cme.com ~2004

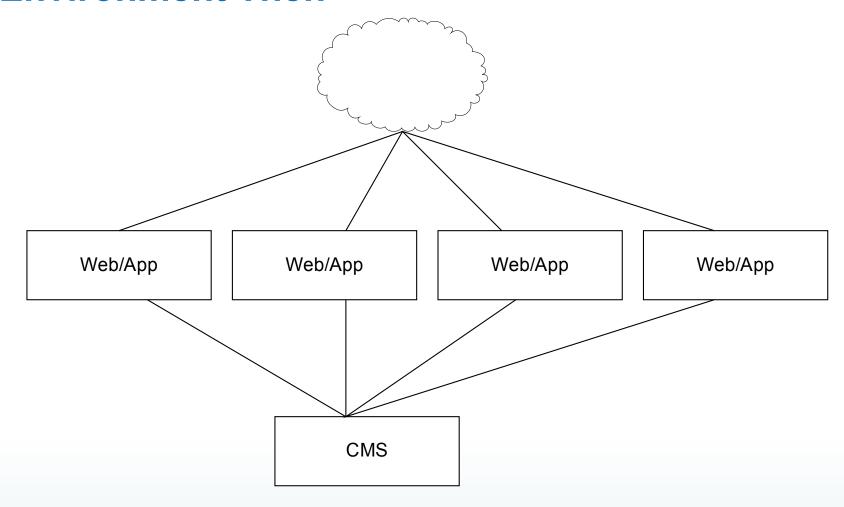




GO)

Education

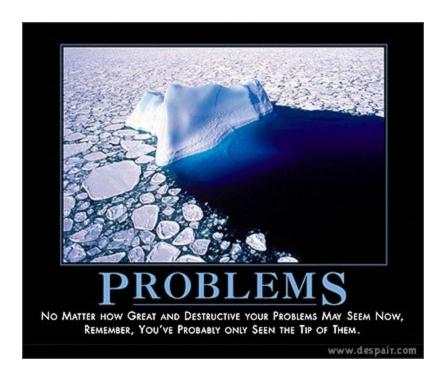
Environment Then





Problems in Paradise

- User interface was an applet
- Support nightmare
- Upgrades impossible
- Slow
- Pegged the server
- Support not very supportive
- Licensing 'disagreement'





The tides begin to turn - 2004

- We didn't have time for depth search
- Tired of vendors and vaporware
- Quick research based on our development standards (Java / XML)
- Internal prototyping
- Low risk, low entry point
- Wanted an active community, stable product



Choice made, migration to OpenCms

- Code was what we knew Java, XML, XSD
- Active Community
- Mature Product
- Had what we needed, didn't have what we didn't need, easily extensible
- Ease of standing up
- No 'weird errors' during smoke testing



Immediate cost savings (expected)

	Percussion	OpenCms
License	\$250K	Free
Support	\$80K	\$10K
Services	At least \$40K if we wanted to try and upgrade	Varies based on needs
Hardware	\$40K (dedicated)	\$5K (shared)



Not just free licenses

Support

- Average time to resolve a production impacting problem 2 weeks (large sample set)
- Average time with Open Source 1 day
- Higher quality, less defects
- All adds up to \$\$\$ savings

Bug Fixes / Release Schedule

- Twice yearly releases, problematic bug fixes or 'pay for'
- Nightly updates, fix it yourself
- Its like CI for your software stack



More....

- Deployable / Installation base
 - Footprints
- Transparency
 - Not sure what the code is doing? Debug it
- Community



And still more...

- Frees up developers
- Allows us to do things we couldn't do before
- Innovation New ideas come to open source first



So Why OpenCms?

Its not just about licensing dollars



Cmegroup.com - 2009

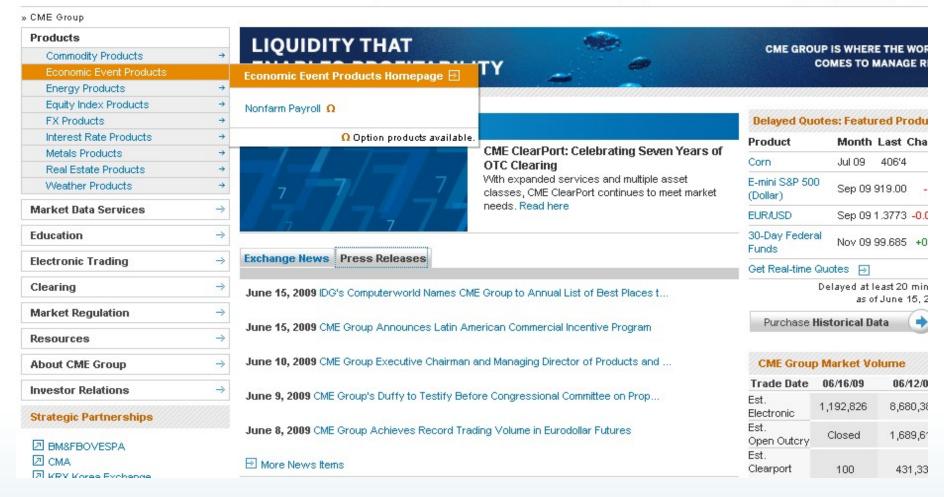


A CME/Chicago Board of Trade/NYMEX Company

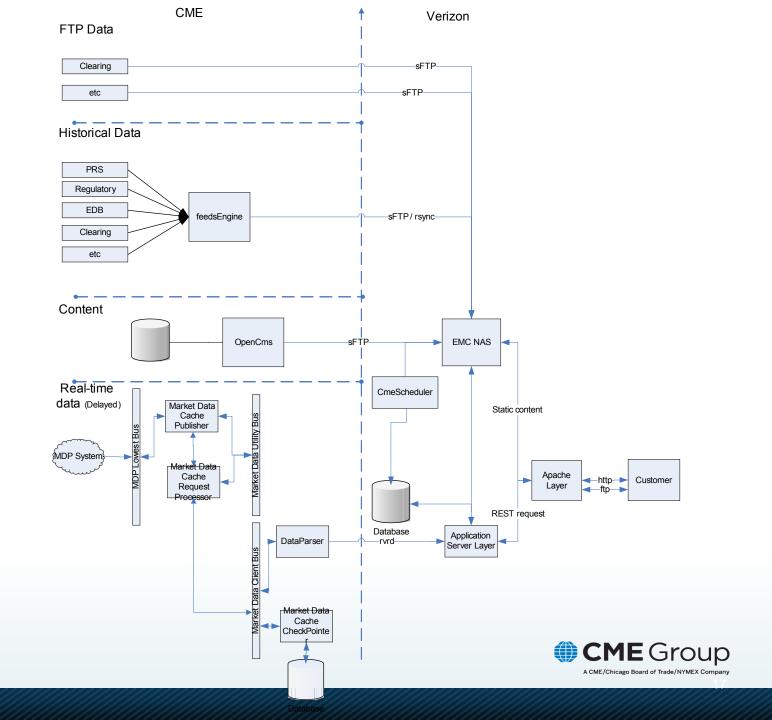
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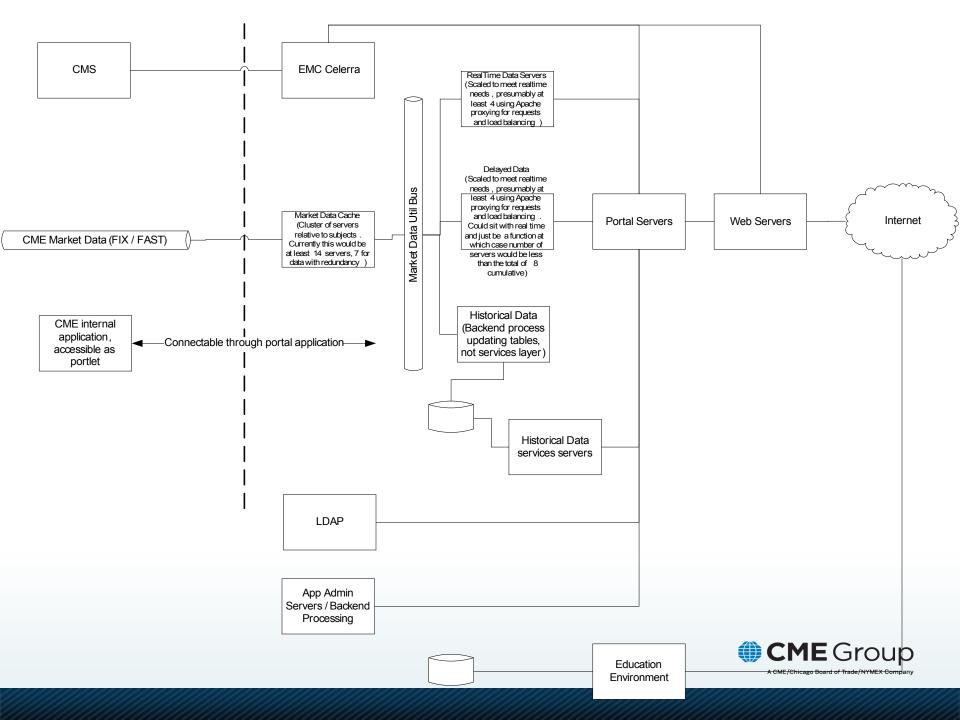
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Thanks!

- Joel Tosi Lead Application Architect CME Group
 - Clojure, Scala, Ruby
 - Open Source, REST Services, NetKernel, TerraCotta
 - Agile Development
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Questions?

