

oBIX

open Building Information eXchange

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www.NewDaedalus.com

- Enterprise Interface to Embedded Systems
- Agnostic about building protocols
- OASIS – consortium has produced more Web services standards than any other organization
 - security
 - e-business
 - e-gov

- oBIX 1.0 is a Committee Standard awaiting further implementation endorsements
- oBIX transitioned to least restrictive IP policy offered under OASIS.
- Discussions about 1.1 begun

- Normalization
- Watches
- Points
- Histories
- Alarming

Note: Other domains have requested we rename alarms to alerts

- Embrace vendor specific extensions!
- Easy to mix together standard and vendor contracts
- Philosophically like Java/C#:
 - Small fixed grammar (obj model/XML)
 - Standard libraries (spec)
 - Vendor libraries (everything else)

Specification Freely Available

- www.oasis-open.org/committees/download.php/21462/obix-1.0-cs-01.zip

Open Source reference implementation

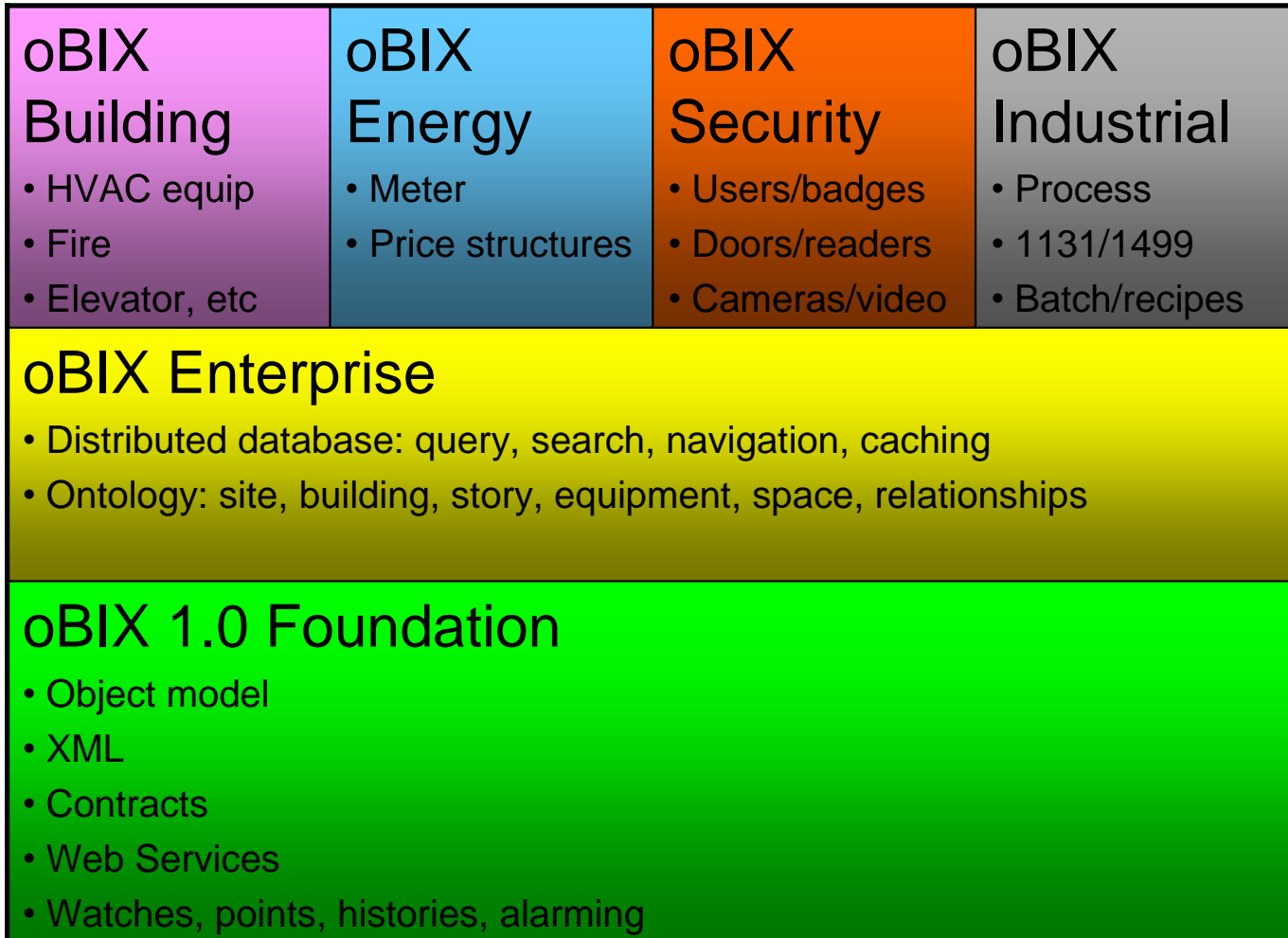
- Public Domain
- <http://sourceforge.net/projects/obix>

And its all free...

- 1.1 Additions:
 - ICAL Binding for Scheduling
 - RSS Option for Watch Points
 - Federated Security Models?
- Increased emphasis on [now] developed SOA models

2.0 – Standard Contracts

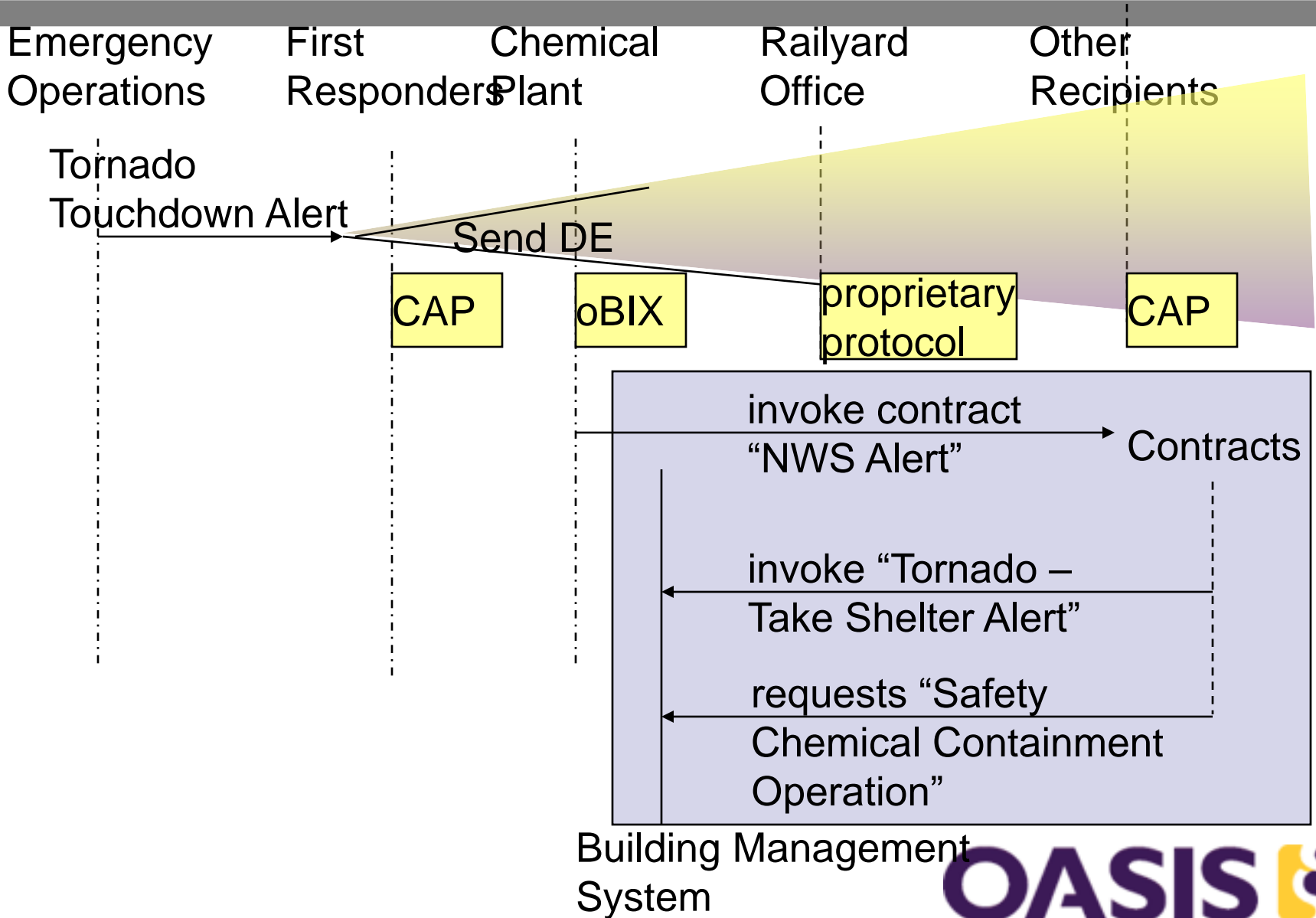
- Semantics from
 - ISA-95 and ISA-88
 - IFC / NBIMS
 - SIA
 - UnitsML
- Standard SOA Constructs
- Technical Sub-Committee forming now



- National Building Information Model Standard (NBIMS)
- Open Geospatial Consortium (OGC)
 - Video to quickly understand OGC
 - http://www.opengeospatial.org/pub/www/ows3/video_ov_hi.html
- OASIS Emergency Management TC (CAP)
- GridWise Architectural Council
- Hospital Availability (HAVE)

- OASIS Emergency Management (CAP)
- NIST Building Information Services and Control System (BISACS)
- New Building Initiatives
- Policy-Based Alert Management
- Re-Use in non-building Embedded System scenarios

oBIX payloads in Distribution Element example



- Embracing Heterogeneity
- Internet Scale Grids of “Building systems”
- Occulting Internal operations details of the [home, office]
- Interfaces to building systems that are
 - Abstract
 - Discoverable
 - Stateless

And oBIX brings this to embedded systems...

OASIS Reference Model for Service Oriented Architecture

http://www.oasis-open.org/committees/tc_home.php?wg_abbrev=soa-rm

Emergency Management Interoperability Scenario

<http://www.oasis-open.org/events/symposium/2007/slides/EmergencyManagementInteroperability.ppt>

OASIS Symposium 2007 Proceedings

<http://www.oasis-open.org/events/symposium/2007/proceedings.php>