

DCMA

Defense Contract Management Agency



Using Data Exchange Standards to Improve Program Management Data Quality

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DoD PM Questions

Program Manager - How do I manage cost and schedule all the way down the supply chain?

Prime Contractor - How do I integrate project schedules from multiple suppliers (and internally)?

DCMA – How do I find systemic issues in the DoD procurement process?

All Three questions are pretty much the same question.

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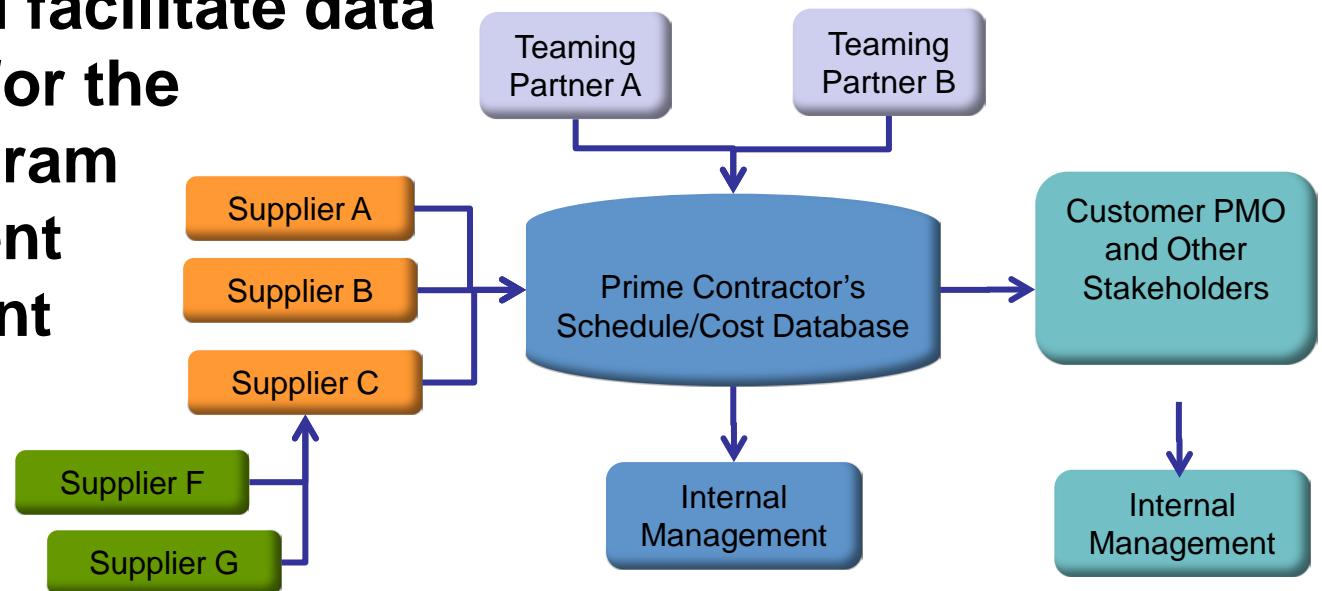
What's the problem?

- **Lack of an effective approach for exchanging schedule and cost data between all program stakeholders**
- **Common issues:**
 - **Inconsistent data content**
 - **Tied to paper based forms and reports that are useless in a digital environment (scanned documents or PDFs)**
 - **High volume of non-value added data content**
 - **Lots of human effort to collect, enter, sort through, or manipulate the data (1980s style?)**

Reinvent the wheel for every program

Where do we want to be?

- **Streamline data capture so all program stakeholders are using a single, predictable data exchange format**
 - Formal published standard that can be cited in contracts
- **Enable and facilitate data exchange for the entire program management environment**



Consistent set of expected data reducing time and cost to exchange information

How do we get there?

- **UN/CEFACT XML schemas approved, published, and ready for use**
 - **International and publicly available standard developed as a joint effort between industry and government stakeholders**
 - **Built on experience and lessons learned from using the ANSI X12 839 transaction set for the CPR formats**
 - **Can be tailored to fit program unique needs**
 - **Toolset neutral – program management software vendors are supporting as a common means to import or export data**

Schemas provide a common vocabulary with common building blocks designed for targeted data exchanges regardless of toolset

Why are XML Schemas better?

- **Makes it easier to communicate between program stakeholders**
- **Single data source that enables a variety of uses and is more accessible**
- **Designed for use with Web-based technologies**
 - **Common components enables ability to build repositories with a broader view**

Low cost existing tools standard methods

DCMA What kind of data can be exchanged?

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- **Schedule (supports IMS DID)**
 - Activities and milestones
 - Relationship details
 - Resource availability and assignment details
- **Cost**
 - Specific to CPR DID data content
 - Or time phased value detail (budget, earned value, actual, estimate)
- **Funding**
 - Specific to CFSR DID data content
- **Reporting Structures**
 - WBS, OBS, milestone hierarchy

It's in there

What's the benefit?

- **Formal and common standard that can be cited in contracts**
 - Expected format for all stakeholders
- **Increases data accuracy**
 - Easily export/import eliminates manual data
- **Preferred and predictable set of data content**
 - Increases consistency, enables a broader use of the data
- **Open standard that supports the DIDs**
- **Single data source for all stakeholders – everyone sees the same picture**
 - PMO
 - Trip wire analysis
 - Central Repository

Gain cost efficiency for all stakeholders
Timely and useful data

Which Vendors are on Board?

Software Vendors Supporting UN/CEFACT Cost and Schedule XML Standard

Compliant Products Available to the Public

Deltek -	Winsight 6.4
Oracle Primavera	Pertmaster 8.2
Metier -	Worklenz 5.8
Steelray -	Project Viewer
Microsoft -	Project
Dekker -	PMIS
QuantumPM	

In Development

Oracle Primavera	P7
Oracle Primavera	Cost Manager
CA -	Clarity
ARES -	Prism
Artemis -	Views 8.3
Safran -	Project

Other Project Vendors?

- **Tell me the name of any software vendor you would like to see compliant with the standard. I will work with them on requirements.**
- **The people who helped develop the standard will work with their programmers**
- **Motivated software vendors can usually produce a compatible version within 2 – 6 months**
- ***Send me an e-mail - john.vandinther@dcma.mil***

Getting Started

Contractors and Project Managers

- Ask **software vendors** for UN/CEFACT compliant version
- Require **subcontractors** to use UN/CEFACT compliant software

Program Managers

- Include UN/CEFACT requirement on all contracts

If no one uses it – it is not a standard – we all lose.

Need more information?

Joint effort between the NDIA PMSC, DCMA, OSD Central Repository, and software vendors

Guidelines are available at:

- <http://dcarc.pae.osd.mil/EVM/Index.aspx>
- https://evg3.dcma.mil/wiki/index.php/Main_Page

The UN/CEFACT schema data library :

- <http://www.unece.org/cefact>

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