



CCR/FedReg and ORCA Interfaces

▶ Upcoming Changes

April 2, 2012

Today

- ▶ **Siloed** – Separate systems, each with a separate login
- ▶ **Redundant** – Overlapping data creates opportunity for error and complicates changes
- ▶ **Separate** – Multiple contractors at many hosting locations, managed separately with varying levels of service



Future

- ▶ **1 Login!** – Functionality accessible at one online location to streamline the process
- ▶ **1 Data Source!** – Centralized, normalized data to eliminate potential for conflicting values and improves agility to deal with future changes
- ▶ **1 Host!** – Consolidated hosting to reduce O&M costs



Existing capabilities, streamlined for efficiency.



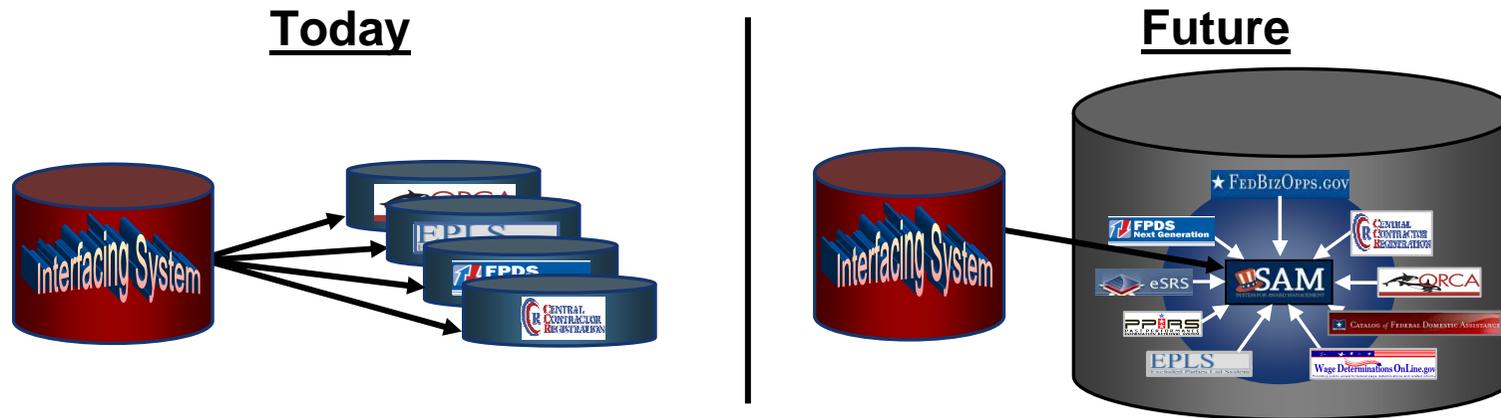
How Will SAM Be Organized?



▶ IAE system capabilities notionally have been organized around six key functional areas

Functional Area	Capabilities	Legacy Systems
Entity* Management	<ul style="list-style-type: none"> • Manage entity core data • Manage certifications/representations 	<ul style="list-style-type: none"> • CCR/FedReg – Central Contractor Registration/Federal Agency Registration • ORCA – Online Representations and Certifications Application
Award Management	<ul style="list-style-type: none"> • Post solicitation and award data • Maintain government-wide contract award data • Manage government-wide subcontractor data 	<ul style="list-style-type: none"> • FBO – Federal Business Opportunities • FPDS-NG – Federal Procurement Data System-Next Generation • eSRS/FSRS – Electronic Subcontracting Reporting System/FFATA Subaward Reporting System
Wage Data	<ul style="list-style-type: none"> • Access wage determinations 	<ul style="list-style-type: none"> • WDOL – Wage Determinations Online
Performance Information	<ul style="list-style-type: none"> • Manage/maintain past performance information • Manage exclusion list 	<ul style="list-style-type: none"> • PPIRS/CPARS/FAPIIS – Past Performance Information Retrieval System • EPLS – Excluded Parties List System
Assistance Program Catalog	<ul style="list-style-type: none"> • Create/maintain assistance program catalog 	<ul style="list-style-type: none"> • CFDA – Catalog of Federal Domestic Assistance
Support	<ul style="list-style-type: none"> • Provide security/access control • Provide reporting/communications support • Provide internal controls 	

* For the purposes of this capability area, *Entity* refers to prime contractors, organizations or individuals applying for assistance awards, those receiving loans, sole proprietors, corporations, partnerships, and any Federal government agencies desiring to do business with the government



- ▶ **SAM is merging multiple systems into one database**
- ▶ **Consolidation of databases eliminates data redundancy across the systems**
- ▶ **In some cases, merging databases requires normalizing like items like field length or format**

Your Interfaces Will Change!



Will Related Systems Be Ready?



- ▶ Every system that interfaces with CCR/FedReg, ORCA or EPLS today must make changes in order to continue with business as usual
- ▶ Groups impacted include contract/grants writing systems (processing awards), financial systems (paying awardees), business warehouses (creating reports), etc.
- ▶ Impacts of not aligning with the SAM data model and updating your interfaces include not being able to update your systems that award contracts or grants and those that pay awardees
- ▶ All the information needed to update interfaces is available at <http://sam.gov>

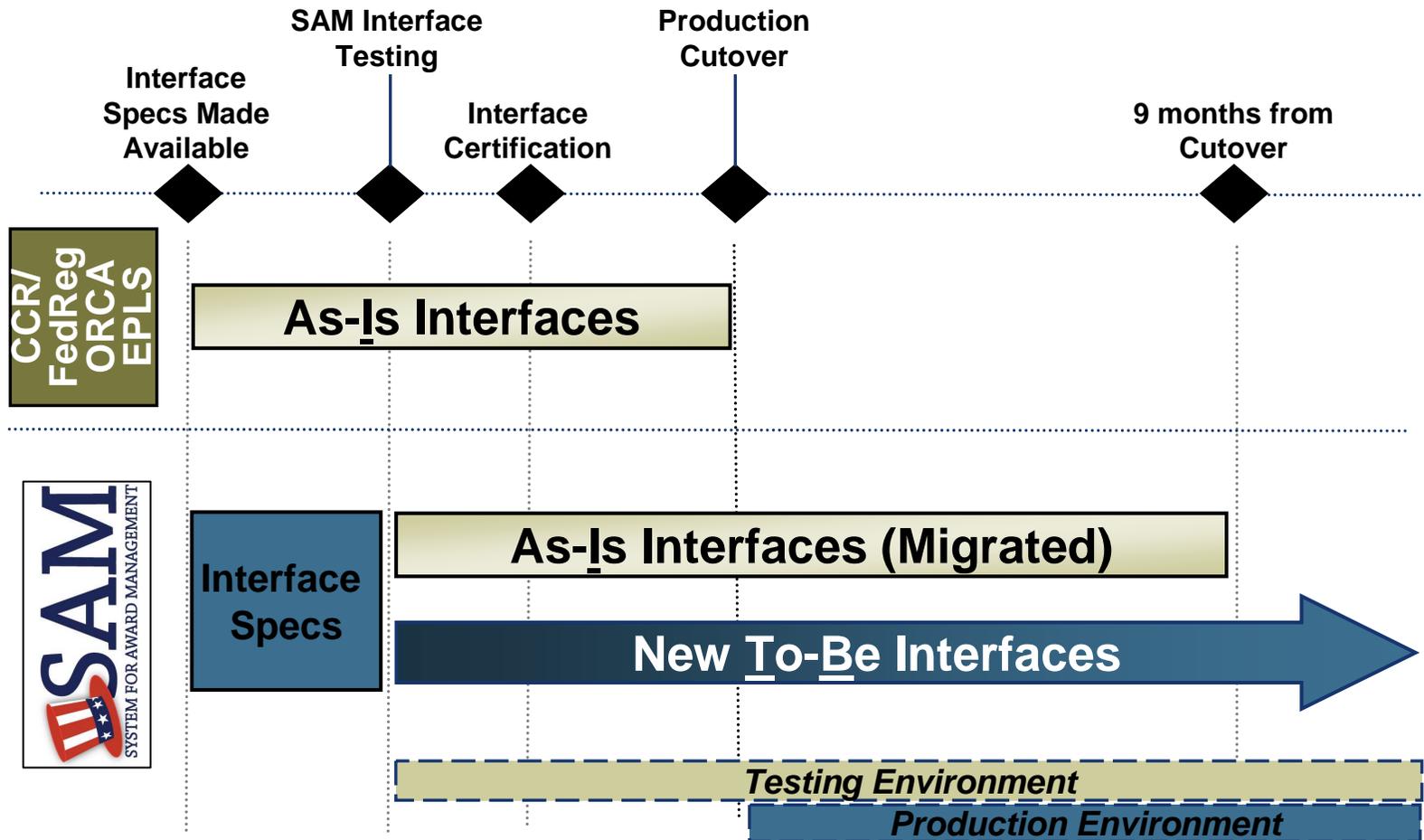


How Was Migration Planned?



- ▶ **Identified and evaluated as-is CCR/FedReg, ORCA, and EPLS interfaces**
- ▶ **Validated business purpose and technical details**
- ▶ **Eliminated redundancies and improved process efficiency where possible**
- ▶ **Analyzed and consolidated interfaces**
- ▶ **Specified interfaces to be phased-out and supported long-term**

What Are the Migration Phases?

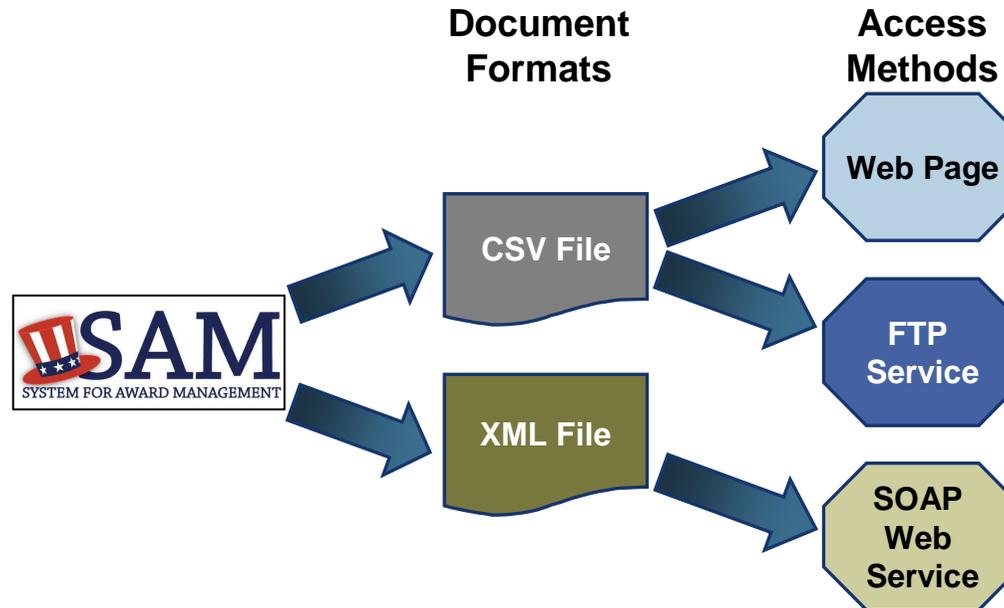




Key Dates



- ▶ **May 29 – SAM Phase 1 is scheduled to be available to users**
- ▶ **By May 29, update your system to consume legacy-formatted data from the new location**
- ▶ **By February 2013, update your system to consume SAM-formatted data**



- ▶ **Data will continue to be provided in multiple ways:**
 - Extracts – Data is provided as a flat file (https/ftp)
 - Web Services (i.e., in XML)
- ▶ **Changes to the data will necessitate changes to the receiving database, regardless of method of transmission**



How Will Data Be Provided? (cont'd)



- ▶ **To-Be interfaces/extracts will be based on functional area and data sensitivity level**
- ▶ **Each Functional Area will have a set of records available in increasing levels of sensitivity:**
 - **Public**
 - **For Official Use Only**
 - **Sensitive**
 - **System Only**
- ▶ **The existing CCR, FedReg, and ORCA extracts will be merged into the four Entity Management extracts**
- ▶ **If you have permissions for that level of data, you have access to all the data at that level, through various means, including web or FTP access to a flat file and web services access to XML**



Which Interfaces Will Be Migrated?



As-Is Interface Name	SAM To-Be Interface Name	Protocol	Data Format
CCR Extract – Complete	Entity Management Extract – System-only	sFTP, HTTP-website, SOAP/HTTPS	XML, CSV
CCR Extract – FOIA	Entity Management Extract – Public	sFTP, HTTP-website, SOAP/HTTPS	XML, CSV
CCR Extract – Sensitive	Entity Management Extract – Sensitive	sFTP, HTTP-website, SOAP/HTTPS	XML, CSV
CCR Extract – FOUO	Entity Management Extract – FOUO	sFTP, HTTP-website, SOAP/HTTPS	XML, CSV
NA	Entity Management Extract – Reqs and Certs	sFTP, HTTP-website	CSV
CCR Extract – MPIN	CCR will be merged into SAM MPIN data will be provided in the Entity Management Extract – Sensitive Functional CCR XML included in Entity Management Extracts		
CCR XML – Non-Proprietary	Functional CCR XML included in Entity Management Extracts		
CCR Extract – Proprietary	CCR will be merged into SAM Austin Tetra data will be provided in the Entity Management Extract – Sensitive Functional CCR XML included in Entity Management Extracts		
CCR XML – Proprietary	Functional CCR XML included in Entity Management Extracts		
CCR XML – Sensitive	Functional CCR XML included in Entity Management Extracts		
FedReg Extract	FedReg will be merged into SAM		
ORCA XML	ORCA will be merged into SAM		

Interface will be kept
 Interface will be eliminated



Major Changes – POCs (cont'd)



Data Sensitivity Level	Legacy System	Type
"Public"	CCR	Electronic Business
	CCR	Government Business
	CCR	Past Performance
"FOUO"	FedReg	Accounts Receivable
	CCR	EDI
	ORCA	Party Performing Certification
	CCR	Proceedings
	CCR	Sole Proprietorship
	FedReg	Eliminations
	FedReg	Sales
	FedReg	Accounts Payable
"Sensitive"	N/A	(none at this time)

- ▶ POCs will be provided as strings
 - POCs will be associated with data sensitivity level
 - "POC type" field will specify the type of POC

- ▶ POC collection is moved to the end of the process and is based on what data is entered by the registrant, so only the POCs relevant to that entity's business purpose are required



Major Changes – Counters



- ▶ **Counters were eliminated from To-be Interfaces**
- ▶ **Data will be provided in CSV/nested XML tags format**
- ▶ **Example**
 - **Product Service Codes – If there are multiple PSCs for a DUNS, they will be made available as a single string with carat (^) separation, bound by “” in CSV file and nested XML tags in web service**
 - **PSC COUNTER – Eliminated from to-be interface**



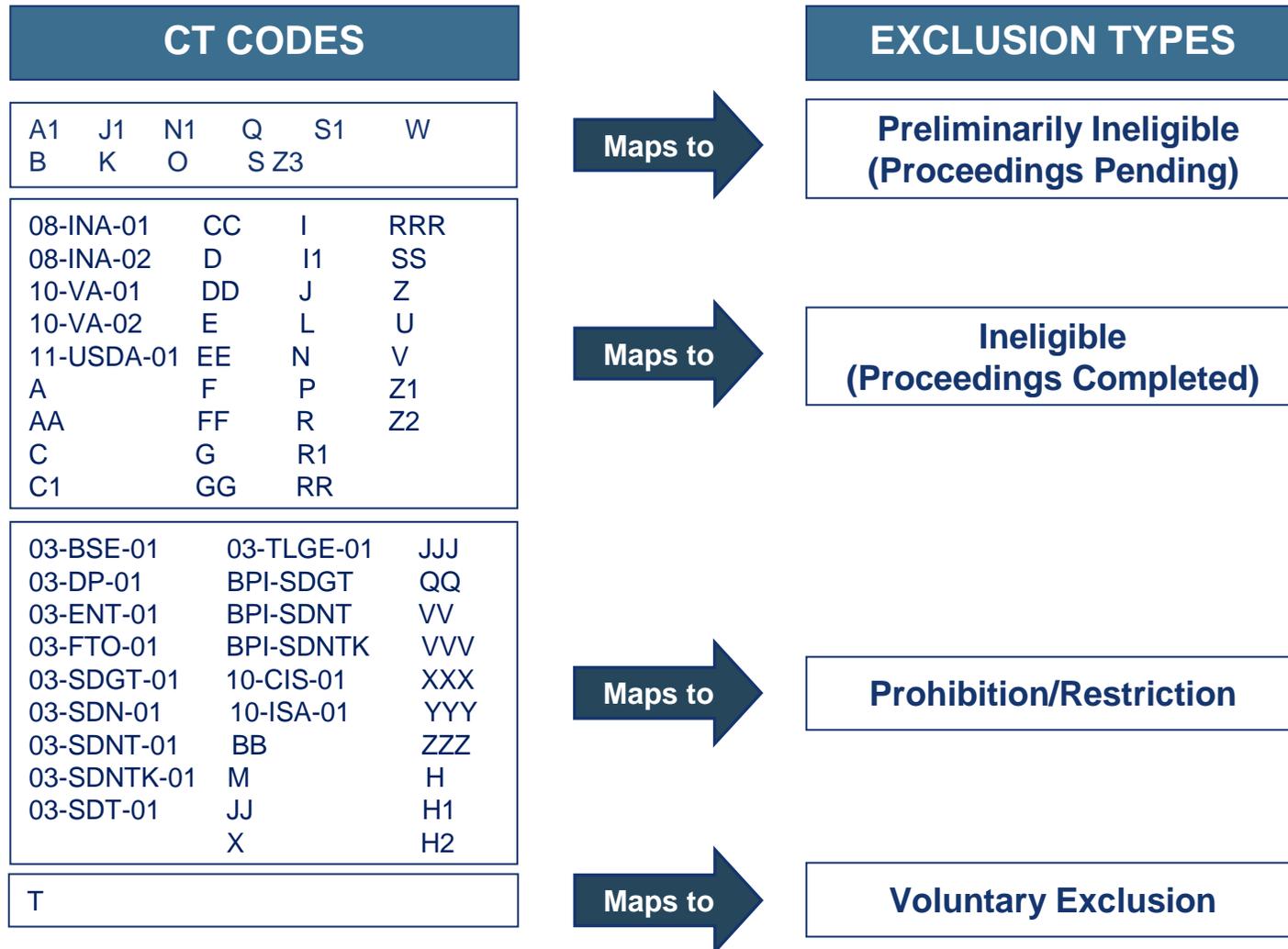
Major Changes – Standards



- ▶ **Standardization of address formats**
 - Added address line 3 and 4
 - Added Zip+4
 - Added Congressional District

- ▶ **Field Length Changes**

▶ CT Codes are being mapped to four Exclusion Types





Extracts Changes – CCR



- ▶ **317 CCR elements are affected in moving to SAM**
 - **58 were eliminated**
 - “Counters” were eliminated
 - The universe of CCR POCs was reduced to just those needed
 - Austin Tetra number eliminated – no longer used
 - SIC codes eliminated – no longer used
 - NAICS string eliminated that was redundant in CCR
 - **4 changed length due to database normalization**
 - DBA Name
 - Highest Employee Security Level
 - Parent Legal Business Name
 - Agency Parent City
 - **133 format change due to database normalization**
 - Converted individual POC elements to strings
 - Normalized format of several fields across the three legacy formats



Extracts Changes – Other



- ▶ **124 FedReg elements are affected in moving to SAM**
 - **21 were eliminated**
 - Counters
 - POCs
 - D&B hierarchy elements
 - **3 changed length due to database normalization**
 - NAICS Code String
 - PSC Code String
 - SAM City
 - **70 changed format due to database normalization**
 - Converted individual POC elements to strings (see slide 8)
 - Normalized format of redundant fields
- ▶ **EPLS – There is no EPLS extract (exclusions data is included in web services)**
- ▶ **ORCA – We are creating a new extract, so for the first time, the full set of representations and certifications data will be available via an extract**



Web Services Changes



- ▶ **Web Services Changes**
 - **Data structure changed to accommodate merging of the CCR/FedReg, ORCA and EPLS data models into a single integrated data model**
 - **Web service operations must change to accommodate the new structure**
 - **Some terminology is changed due to merging of functions**

- ▶ **Level of effort for making the necessary changes on the consuming system side will vary due to differences in technology environment, skills, lifecycle method, and key scenarios relevant to the context**



Where Can I Get More Information?



- ▶ **The SAM.gov web site contains the following information**
 - **SAM Interfaces Overview Briefing – contains this information and additional background**
 - **Extract Mapping Spreadsheet – Details the as-is and to-be data elements and provides a mapping**
 - **Web Services**
 - Interface Specification for Web Services
 - SAM Legacy WSDLs
 - **Extracts – Sample CSV file for each extract type**
 - **Consolidated SAM Interfaces Q&A – Answers questions users have posed about implementing the interface changes**

- ▶ **Once you have reviewed the above information, please feel to write to askSAM@gsa.gov with any questions you may have**



Spreadsheet – Key Points



▶ Data Format

- Describes the data type to include any single character or boolean values

SAM Extract Element List	Datatype	Data Format	Length	CSV or XML
Account Type	STRING	C or S	1	BOTH
ACH Email	STRING	STRING	80	BOTH

- Describes the date format – MMDDYYYY
- ^Separated – Refer to the worksheet “SAM To-Be STRING Clarification”

▶ Data Length

- Provides the length of the element



String Explanation



▶ **SAM Numerics Code String**

- **Bonding Level Value + Local # Employee + Local Ann. Revenue + Total Assets + Megawatt Hours + Barrels Capacity**

▶ **Disaster Response String**

- **Geographic Area Served: County + Geographic Area Served: Metropolitan Statistical Area + Geographic Area Served: State**

▶ **Bus Type String**

- **Government Type + Other Business or Organization Qualifiers + Other Entity Qualifiers + AbilityOne Flag + Registration Purpose**

▶ **DNB Linkage String**

- **Parent Address + HQ Parent Address + Domestic Parent Address + Global Parent Address**

▶ **SBA Business Types String**

- **SBA Business Types + SBA Cert Exp Date**



^Separated Fields



► **Explanation of String concatenation**

- Values separated by single ^
- List Values separated by double ^^
- e.g.: “. . . ^^GL^123456789^555551212^123 Main Street^NULL^NULL^NULL^Arlington^USA^VA^99999^0001^01012011^^. . .”



Data Request Process



- ▶ **There will be a new process for requesting an extract or XML feed**
 - **Determination of business need for the data**
 - **Government POC approval (may also require security officer approval)**
 - **SAM PMO approval**

- ▶ **To submit data into SAM (which will be available in Phase 2b), interfacing systems will go through a certification process**



Data Access



- ▶ **For Phase 1, SAM has following Data Access levels**
 - **Public Data – No approval needed**
 - **FOUO Entity Management Data – Approval required for non-government users**
 - **FOUO Exclusions Data – Approval required**
 - **Sensitive Entity Management Data – Approval required**
 - **Sensitive Exclusions Data – Approval required**
 - **System Only Entity Management Data – Approval required**
 - **MPIN Data Viewer – Approval required**

- ▶ **Users from .gov, .mil or si.edu domain, or users with a SAM U.S. Federal government role, will automatically have Entity Management – FOUO Data Access, replacing CCR Tools**



Requesting Data Access



- ▶ **Pre-Go-Live:**
 - Those who already have access to any of the CCR extracts and CCR Tools will receive an email with information.
 - They will need to fill out two forms (data access request and data usage agreement) and email them back.
 - They will receive test accounts and will be able to test the extracts prior to go-live.
 - These test accounts will automatically be rolled over to production accounts after go-live.

- ▶ An email has already been sent out to this group. If you did not receive it and you think you are a current user of the extracts, please email asksam@gsa.gov to be added to the list.



Requesting Data Access



- ▶ **After Go-Live:**
 - **User must first establish a SAM account.**
 - **User will navigate to the SAM “Data Access” page and fill out their request online.**
 - **User will complete their Data Agreement electronically; a PDF will be available.**
 - **Access requests will be automatically emailed from SAM to the approver(s) (Note approvers do not need to have a SAM account)**
 - **GSA PMO will process final approval and user will receive an email confirming their account**

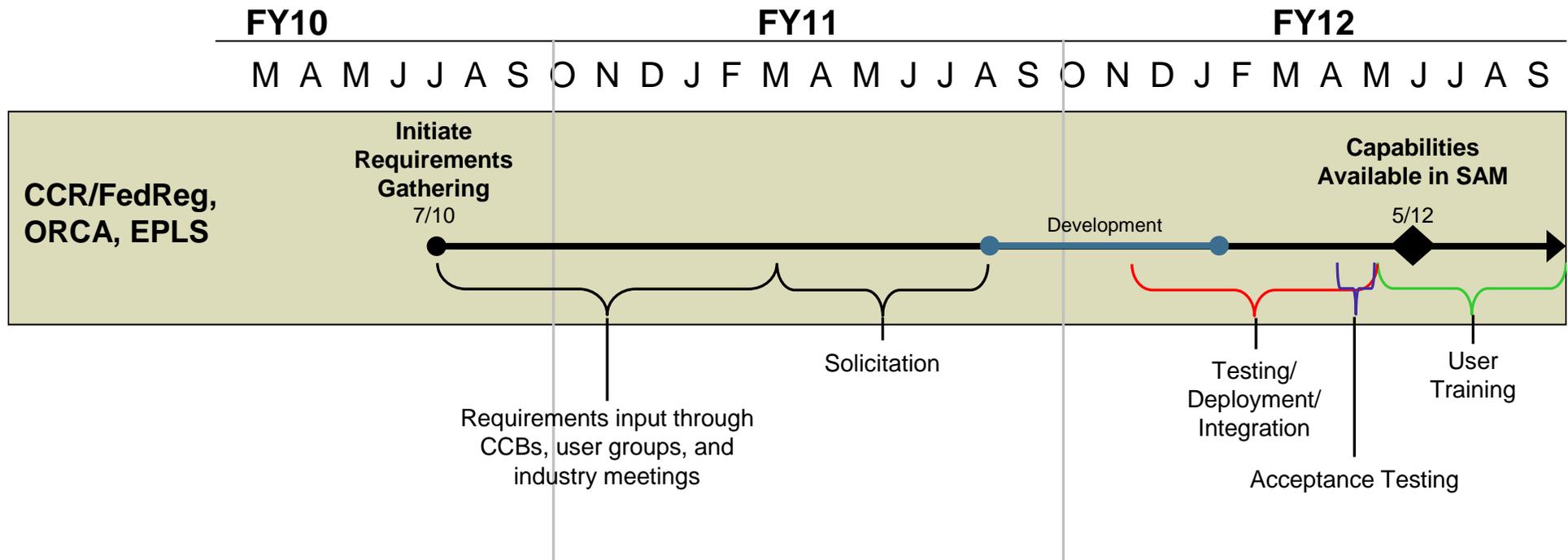
- ▶ **Once request is granted, user will be able to access the data by either extract method and via online searches.**



What's Next?



- ▶ SAM Phase 1 will go live May 29, 2012





Next Steps for You



- ▶ **Plan for Changes**
 - Estimate and budget for changes in legacy system interfaces and SAM interfaces
 - Include plans for interface changes in release schedules
 - Development
 - Test
 - Certification
- ▶ **Use documentation available on sam.gov to plan and code**
- ▶ **Stay Informed**
 - Check the website for new information
 - Write to askSAM@gsa.gov and ask to receive emails when new information becomes available
- ▶ **Communicate with us about pain points (send email to askSAM@gsa.gov)**



BACK UP SLIDES





Major Changes – POCs



- ▶ **Some POCs were eliminated because SAM has a role that does this function:**
 - **CCR POC, CCR POC Alternate:** these become an Entity Administration role
 - **Certifier POC, Certifier Alternate POC:** these become the Entity Registration Representative role

- ▶ **Some POC types were eliminated because they were not really POCs:**
 - **Corporate POC:** Replaced with E-Business POC and Government POC
 - **Remit Info POC** is really the “Attn line” for the Remit address
 - **Mailing Address POC** is really “mailing address line 2”
 - **Owner Info POC/Sole Proprietor POC** is the answer to a FAR clause in ORCA
 - **Previous Business Name POC** is actually the previous business name (not a person name)
 - **Domestic Ultimate POC, Global Ultimate POC, Gov Parent POC, HQ Parent POC:** these were misnamed in the extract documentation, they are actually D&B linkage information

- ▶ **All Alternate POCs are now optional (eases the burden for small businesses)**