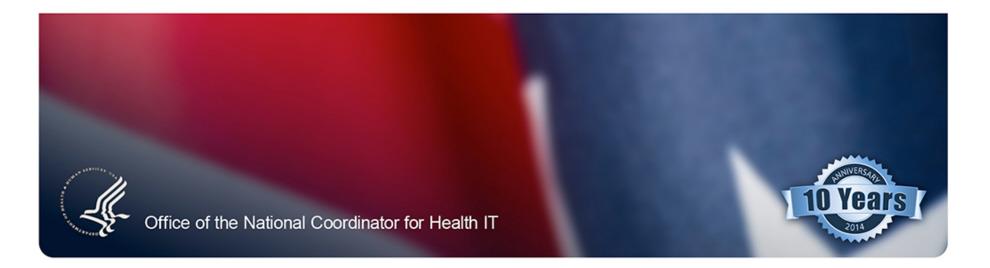
LINKING HEALTHCARE COMMUNITIES



Healthcare Directory Deep Dive October 20th 2015





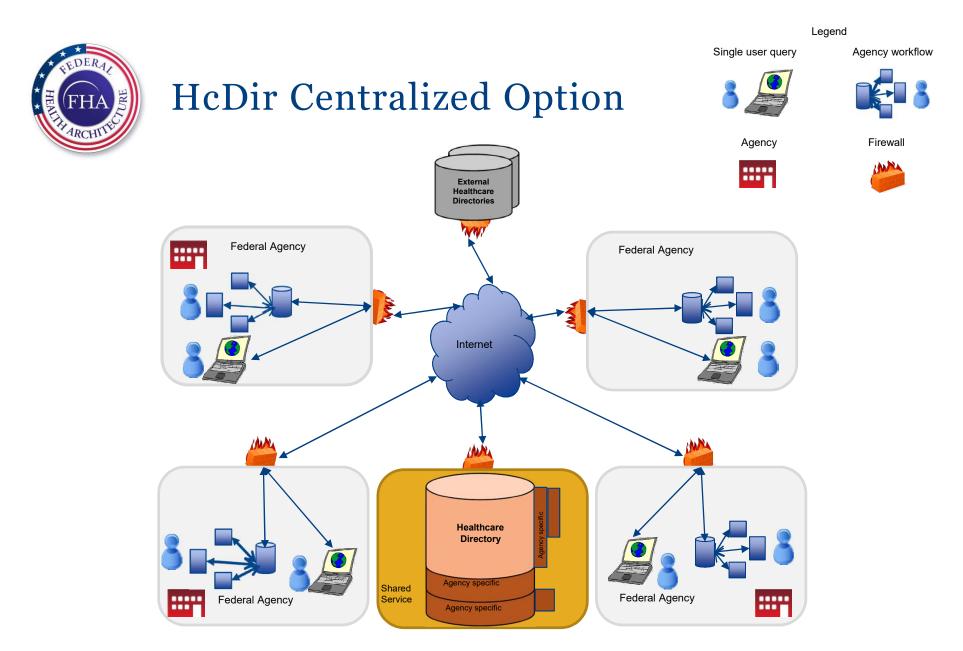
HcDir Status

- Managing Board charge
 - Initially focused on HcDir architectural alternatives
 - Expanded in July to include short/mid/long term solutions
- Completed work
 - Survey of Federal partners' HcDir needs
 - Created findings related to ESI
 - Completed assessment of architectural/deployment models



Architectural Models and Assessment

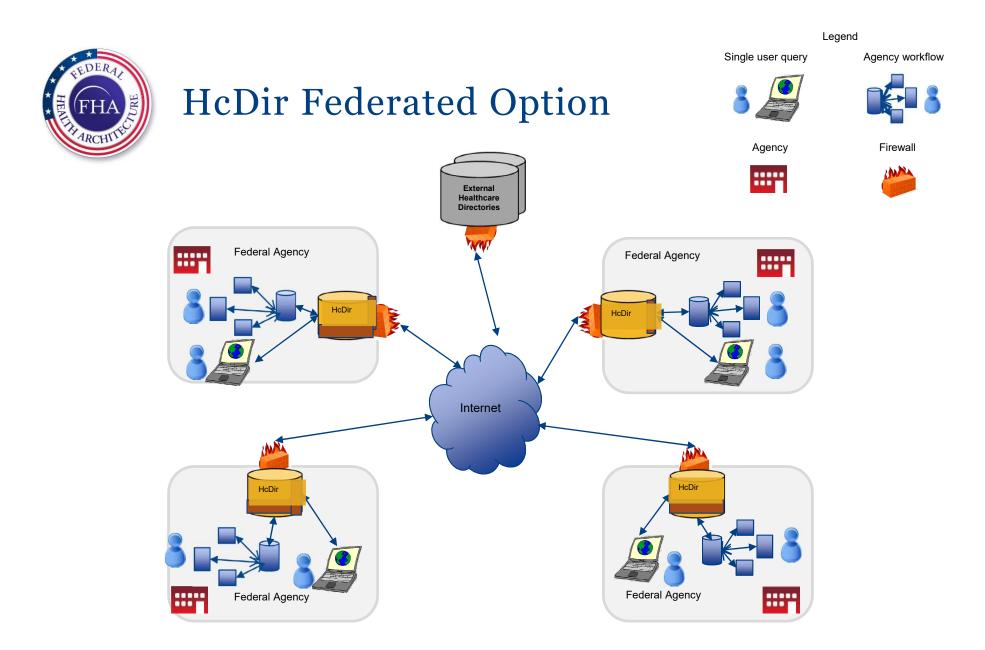
- Architectural / Deployment Models for HcDir for FHA
 - Centralized
 - Federated
 - Hybrid
- Assessment and evaluation criteria for agency requirements and deployment models
 - Governance
 - Management / Operations
 - Resourcing, Level of Effort (LOE) and time to production
 - Financing and financial implications
 - Technical considerations



All agencies use a centralized directory

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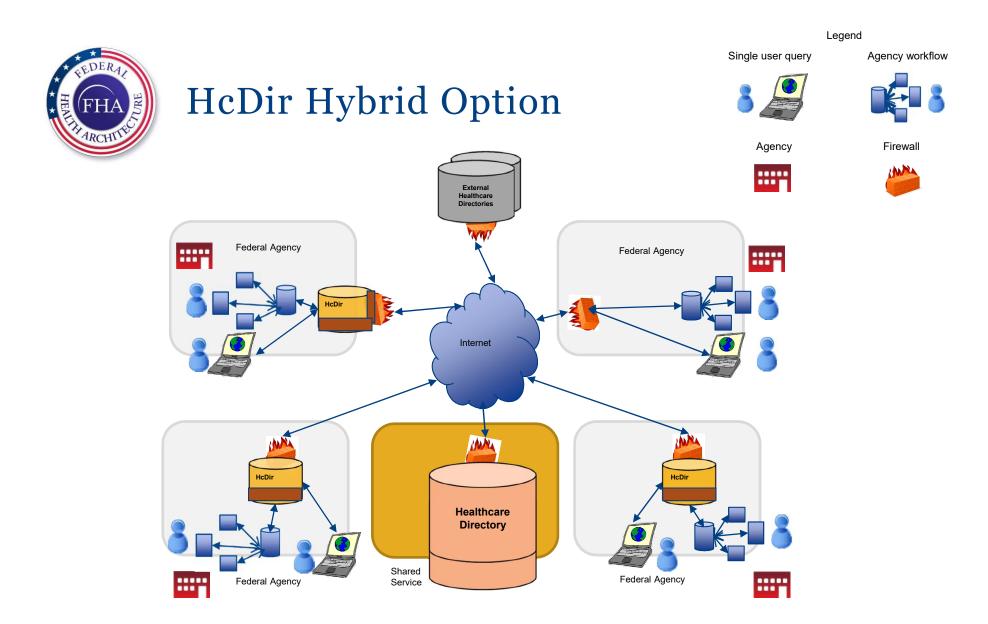
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Each agency has its own directories

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Agencies have their own directories and share a centralized directory with information common to all

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HcDir Issues Summary

	Centralized	Federated	Hybrid	Centralized Alternative	Hybrid Alternative
Governance	3.3	9.3	7.5	5.0	6.5
Mgmt and Ops	6.4	10.0	8.2	8.2	9.0
LOE and Time	8.9	7.1	7.1	7.8	7.4
Technical	7.6	7.5	8.8	7.9	8.3
Cost	8.5	8.4	5.8	7.7	6.3
Average	6.8	8.4	7.3	7.2	7.3

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Summary:

- **Overall**: Federated is the most highly rated followed by a Hybrid model
- **Centralized**: Strong points: Cost and Level of effort / timeline to initial functionality Weak points: Governance and management/operations complexity
- Federated:
 Strong points: Governance and management/operations

 Weak points:
 Technical and LOE/Time to build solution for all agencies

 Hybrid:
 Strong points:
 Technical and management/operations
 - Weak points: Cost and LOE/Time to build solution for all agencies



HcDir Architecture Recommendations

- Initial: Federation

 minimizes the governance and management / operations issues that may inhibit the initial adoption of HcDir

Mid-term: Hybrid Approach

- Provides for common approach to shared HcDir information and services
- Each agency manages their own unique information requirements and workflow integration
- Long-term: Hybrid Alternative Approach
 - Add specific agency unique information and integration support to shared services



Agency Specific Requirements

Agency*	Agency Specific Observations	Recommended Approach
CDC	Interest in Industry wide directory of electronic endpoints for licensed providers and emergency health services	Short Term: Federated or Hybrid (access to shared data on all providers) Mid-Term: Alternative Hybrid Long-Term: Alternative Hybrid
CMS	Statutory directories – NPPES / PECOS / Medicare EDI – interest in electronic endpoints for all NPI holders along with some additional agency specific information	Short Term: Federated or Hybrid (access to shared data on all providers) Mid-Term: Hybrid Long-Term: Alternative Hybrid
SSA	Need for all electronic endpoints for all providers along with significant additional internal information (multiple current directories)	Short Term: Federated or Hybrid (access to shared data on all providers) Mid-Term: Hybrid Long-Term: Alternative Hybrid
VA	Immediate need for HcDir supporting internal Direct addresses (all validated data) Mid-Long term interest in access to an industry wide directory	Short Term: Federated Mid-Long Term: Hybrid
	*DoD ar group	nd Indian Health Services information not captured w/in work



Detailed HcDir Content Requirements Survey

- Developed a list of fields
- Obtained agency input
 - Current
 - Short Term
 - Mid Term
 - Long Term



Summary of Requirements Survey

	CDC	CMS	SSA	VA (Direct)
Actions Against	None	C/S/M/L	S/M/L	None
Credentials	C/S/M/L	C/S/M/L	C/S/M/L	Limited
Demographics	M/L	C/S/M/L Specific	C/S/M/L Specific	C/S/M/L Specific
ESI	M/L	C/S/M/L	C/S/M/L	C/S/M/L Direct
Extensions	M/L	C/S/M/L	C/S/M/L	None
Scope	M/L All	C/S/M/L excl Fed	C/S/M/L Most	C/S/M/L Federal People/Org
Patient Access	M/L Specific	None	C/S/M/L Specific	Limited
Performance	None	M/L	M/L	None
Relationships	M/L Specific	C/S/M/L Specific	C/S/M/L Specific	C/S/M/L Specific
Trust	None	C/S/M/L	C/S/M/L	C/S/M/L



Existing Related Directories

- Enumeration and evaluation of Federal directories
- Enumeration of non-Federal directories





Existing Federal Directories

Owner	Directory	Scope	Benefits	Challenges
CMS	NPPES	95+% all providers,	open access,	No provider-org information, no ESI (currently), limited validation of information, document format, limited query capability
CMS	PECOS	60-70% NPPES	information validated	Limited access, no ESI
SSA	Internal	Virtually all providers	broad information	Information frequently out of date, for Internal use, limited ESI
VA	Internal	VA internal only	Information validated, includes Direct ESI	Limited access
CDC	PHINDIR	Providers, emergency preparedness	Open and accessible and web-based	Completeness, validation

*DoD and Indian Health Services information not captured w/in work group

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Other directories

- CAQH
- LexisNexis
- Healthcare Data Solutions
- Insurers (BCBS Assn., Aetna, United, Cigna)
- DirectTrust
- AMA
- Tricare directories
- Federation of State Medical Boards?