



DI2E Clearinghouse Process

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Context for Clearinghouse Process

10 Focus Areas

DoD JIE / ICITE Enablers

- Component C&A
- Architecture
- Policy Changes
- Etc.



Program Enablers

- Schedule
- Performance
- Resource Impacts
- Etc.

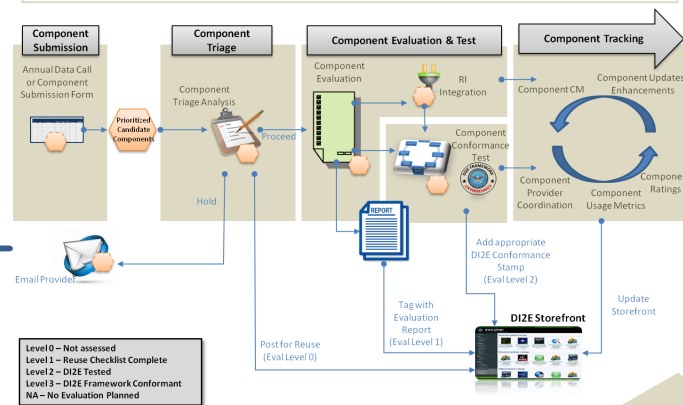
Codified by the DIZE Architecture Action Group

Focus Area Tailored Implementation Guidance

- DIZE Architecture
- Standards & Specifications
- Technical Profiles
- Guidebooks
- Form, Fit, Function Requirements
- Candidate Components
- Policy Impacts
- Business Model Enablers

Community-defined framework

DIZE Clearinghouse Process



Evaluation of candidate components against Tailored Implementation Guidance

Program Reuse

Reuse Decision Based on Program Need

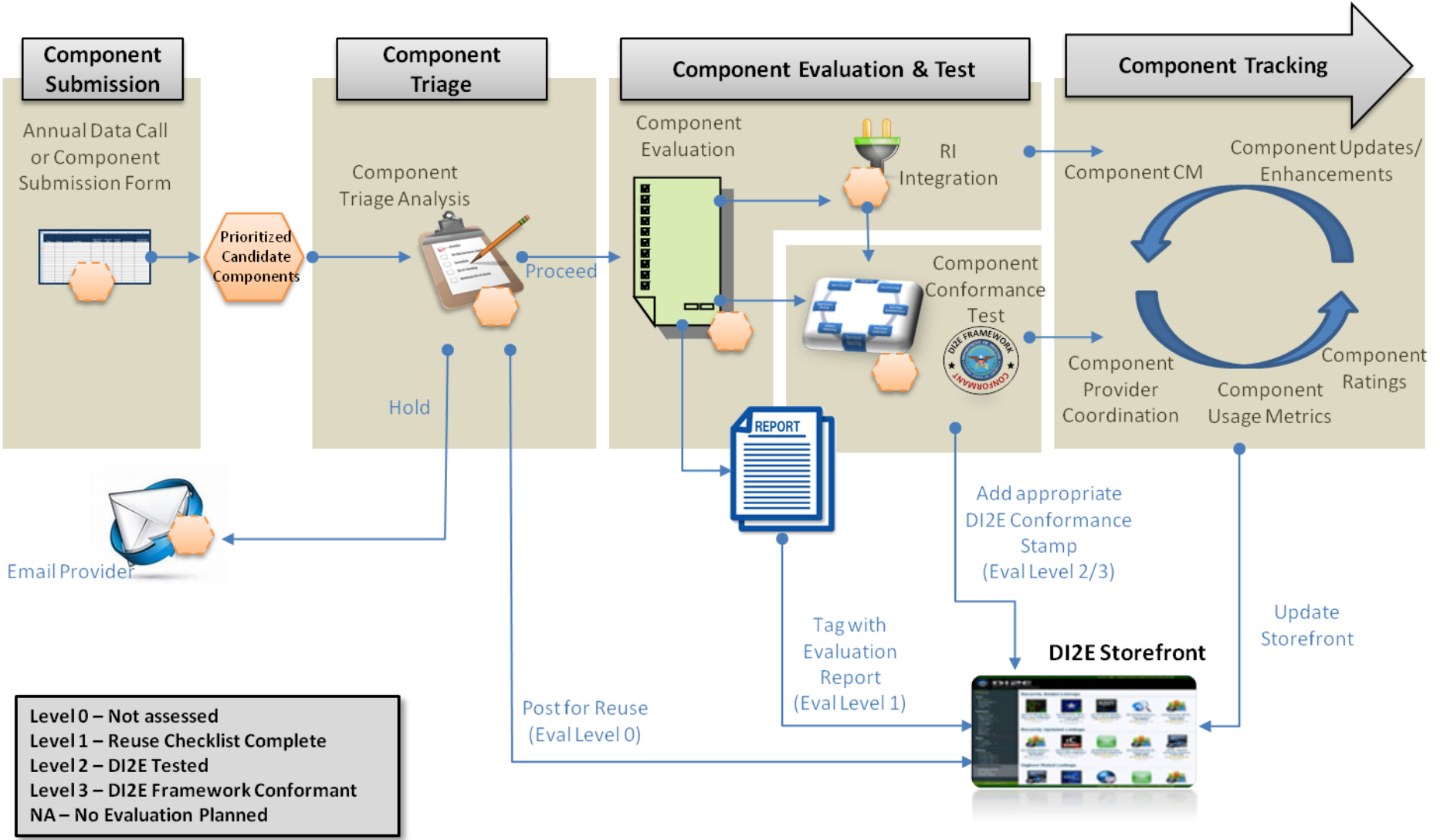


Clearinghouse Evaluation and Consumer Reports Support Reuse Decision

Enhance Reuse & Inform/Execute Enterprise-wide Acquisition Decisions



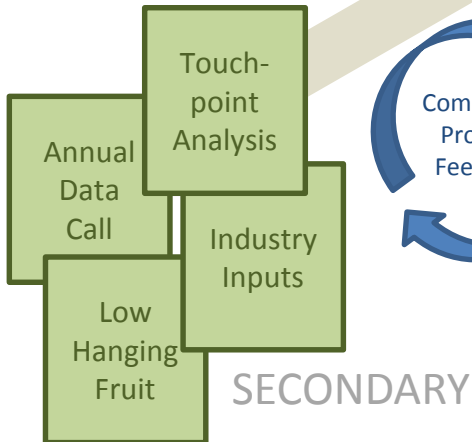
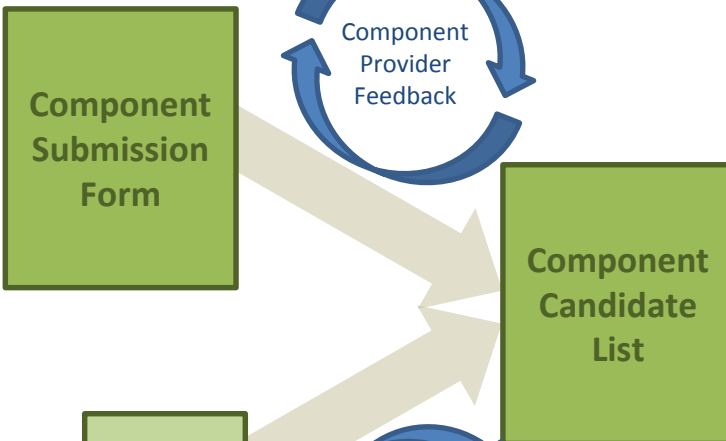
DI2E Clearinghouse Process



Clearinghouse → Component Submission

Component Submission

PRIMARY



SECONDARY

Why should I submit components into the DI2E Clearinghouse Process?

- Support DI2E community transition to a new way of doing business – help make it work, feed the enterprise
- Per the pending Acquisition Decision Memorandum, Clearinghouse process becomes a gate in future acquisitions

How can I submit components into the Clearinghouse Process?

- Component Submission Form can be found at: https://www.intelink.gov/wiki/DI2E_Services_IPT
- To submit component form or for help, email: DI2EFrameworkInfo@di2e.net



OFFICE OF THE UNDER SECRETARY OF DEFENSE FOR INTELLIGENCE Clearinghouse → Component Prep/Triage

Component Triage

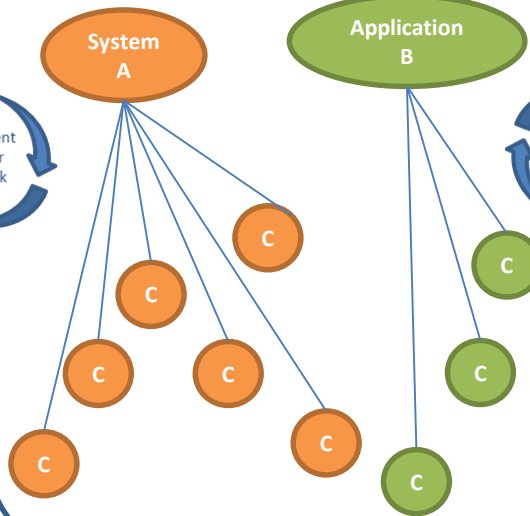
Ensure sufficient component information available

What additional information needs to be gathered??

- Basic Component Metadata**
- Asset Name
 - Description
 - Basic Functional Understanding
 - DI2E Architecture Alignment
 - Type of Component
 - Component Dependencies
 - Lifecycle Status
 - Component Documentation/Code/Binaries
 - Program Owner/Sponsor
 - Technical PoCs



Decompose submission into respective components (as warranted)



Apply Triage Checklist

Do we need a further understanding of the component's reuse viability?



- Quick Triage Checklist**
- Basic Discoverability
 - Accessible
 - Basic Documentation
 - Deployment Dependencies
 - Ease of integration
 - Program Backing/Longevity



Building the body of knowledge; initial look at potential Program reuse viability



OFFICE OF THE UNDER SECRETARY OF DEFENSE FOR INTELLIGENCE Clearinghouse → Component Evaluation

Component Evaluation

- Evaluation of reuse potential
- Checklist provides a standard evaluation and report (available via the SF)
- Report generated and added to storefront entry

- **Technical**
 1. Discoverable
 2. Accessible
 3. Documentation
 4. Deployable
 5. Usable
 6. Error Handling
 7. Integratable
 8. I/O Validation
 9. Testing
 10. Monitoring
 11. Performance
 12. Scalability
 13. Security
 14. Maintainability/Upgradability

- **Programmatic**
 1. Community and Outreach
 2. Change Management
 3. C&A
 4. Licensing
 5. Roadmap
 6. Willingness
 7. Architecture Alignment

Example

QUESTION: Are the government rights to the asset appropriate for DOD?

ANSWER: See the section below, *Use from Open Technology Development: Lessons Learned & Best Practices (section 1.4.1)*.
By definition, an OTD project is built on collaboration. Such collaboration is only possible when there is a legal framework that permits it (including the necessary intellectual rights) and where the terms of this framework can be understood by ordinary laymen.
The term "intellectual rights" means the set of rights over an intellectual work that are held by various individuals through relevant laws, regulations, licenses, contracts, and so on. Relevant laws include copyright, patent, and trademark law. Copyright law is especially important: those who hold the copyright of a work, or have the key rights that a copyright holder has, can impose conditions on when the work can be used, modified, or redistributed. For purposes of this document, all laws and regulations regarding on how the works can be shared and used affect intellectual rights, including the laws and regulations for classification and export control.
A key issue in any OTD project is to work out the intellectual rights so that the software can be used, examined, modified, and redistributed among its community.
When done correctly, requiring the intellectual rights necessary for an OTD approach does not conflict with DOD policy. DOD Federal Acquisition Regulation (FAR) Supplement (DFARS) 227.7203 could be misunderstood as forbidding an OTD approach, but when closely examined it does not forbid OTD at all. DFARS 227.7203-1(c) (as revised on January 20, 2011) says that "Offers shall not be required, either as a condition of being responsive to a solicitation or as a condition for award, to sell or otherwise relinquish to the Government any

Subsection	Question	Objective	Scoring Example
Discoverable	Can the developer find the asset?	Asset is indexed on at least one search engine (e.g., Intelink, Forge.mil, D2E Storefront, Google, etc.)	5 - Asset is indexed, defined and described on one well-known storefront or repository. 3 - Asset is on the developer's website (on the relevant network), not indexed in any storefront. Brief or incomplete description of asset 1 - Asset is on multiple, uncorrelated websites. Asset is in no searchable storefront. Developer finds the asset by word of mouth.
	Can a developer discover various status information about the asset?	Current version of the asset is maintained and documented at some stable URL	5 - Multiple mailing lists exist providing developers with support, discussion and announcements 3 - Regular website updates indicate new releases of the asset, including security vulnerabilities 1 - No mailing lists exist, updates are sporadic

Providing Programs the interoperability and reuse information needed to make acquisition and planning decisions

Clearinghouse → Component I&T



Component Test

DI2E Framework Test Strategy

Provider-driven Testing

- By component provider
- Stand-alone or under originating system context
- *At contractor or Program facilities*

DI2E Framework Testing

- Component conformance and integration testing
- RI integration testing
- *At DI2E Framework Testbed and lab facilities*

Consumer-driven Testing

- End-to-end interoperability test
- Mission / operational test
- *At consuming Program facilities and enterprise venues (DDTE, EC, etc.)*

Providing the complete I&T details for potential consumers - supporting/reducing each consumers I&T efforts



OFFICE OF THE UNDER SECRETARY OF DEFENSE FOR INTELLIGENCE Industry participation for DI2E Plugfest

Government PM Coordination

Vendors Gov't PM

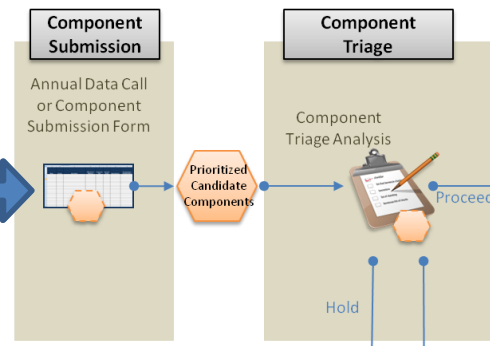
Component Code Already Acquired and Integrated in the DI2E

Industry Coordination

Vendors → **DI2E Plugfest™** Plugfest & Mashups

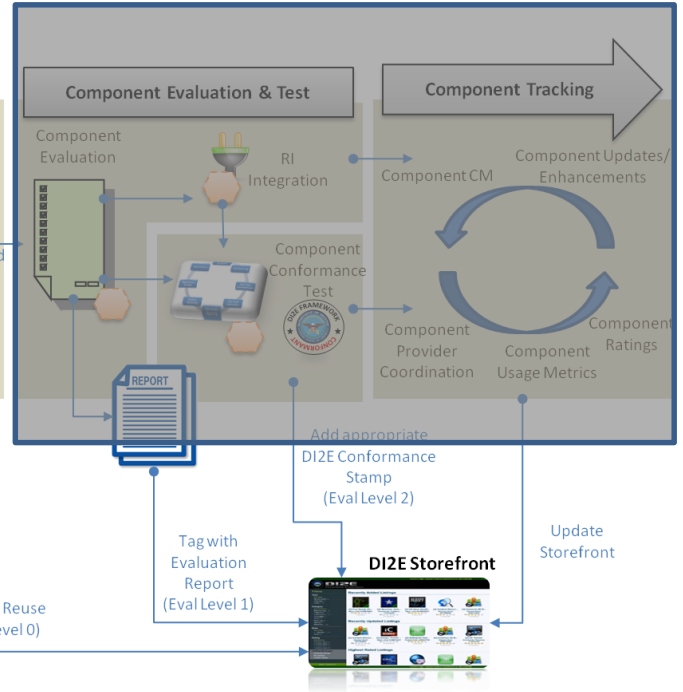
Vendors → **Acquisition Announcements**

Vendors → **Vendor Review Days**



- Level 0 – Not assessed
- Level 1 – Reuse Checklist Complete
- Level 2 – DI2E Tested
- Level 3 – DI2E Framework Conformant
- NA – No Evaluation Planned

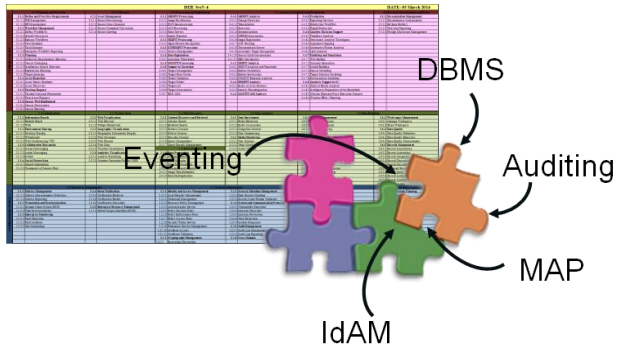
Out of Scope for Plugfest & other Industry Interactions





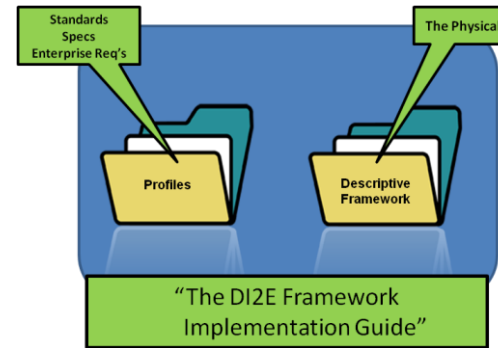
The DI2E Component Challenge

Loosely Coupled and Aligned



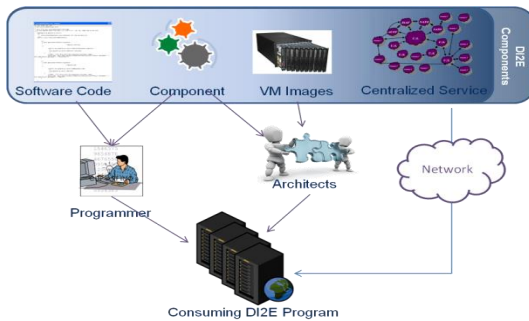
Productizing the Standard Interfaces for Proper Decoupling and aligned to DI2E Reference Architecture

Well Documented



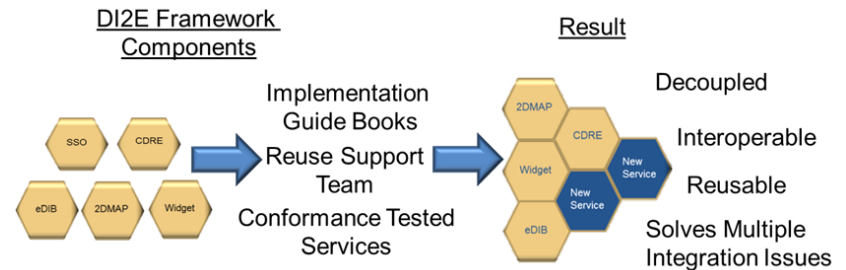
Leveraging Existing Information to Document an Enterprise Component

Packaged for Ease of Reuse



Multiple Packaging Methods to Meet Varying Reuse Needs

Interoperable & Reusable



DI2E Programs have the autonomy to integrate, modify, change the Components to meet their requirements



Questions

DI2E Services IPT Intelink-U:

https://www.intelink.gov/wiki/DI2E_Services_IPT

DI2E Framework Intelink-U:

https://www.intelink.gov/wiki/DI2E_Framework

DI2E Storefront:

<https://storefront.di2e.net>

DI2E Developers Environment:

<https://devtools.di2e.net>

DI2E Framework Information Email:

DI2EFrameworkInfo@di2e.net

DI2E Framework Account Request:

Accounts@di2e.net