1. *Project Name and ID*

|  |  |
| --- | --- |
|  | *An ID will be assigned by Project Insight* |
| **Development of computable semantic links from FHIR specs to RIM** | 1190 |
| |  |  | | --- | --- | |  | TSC Notification Informative/DSTU to Normative Date : | | |
|  | |

1. Sponsoring Group(s) / Project Team

|  |  |  |
| --- | --- | --- |
| Primary Sponsor/Work Group (**1 Mandatory**) | | **Architecture Review Board (ARB)** |
| Co-Sponsor Work Group(s) | | **EST Electronic Services and Tools**  **ITS(RDF work group)**  **Pharmacy** |
| Co-Sponsor Group Approval Date | | Co-Sponsor Approval Date CCYY-MM-DD |
| Indicate the level of involvement that the co-sponsor will have for this project:   |  |  |  |  | | --- | --- | --- | --- | |  | | Request formal content review prior to ballot | | |  | Request periodic project updates. Specify period: | | Monthly, at WGMs, etc. | |  | Other Involvement. Specify details here: | | Enter other involvement here | |  |  | |  | | | |
|  |  | |
| **Project Team:** |  | |
| Project facilitator (**1** **Mandatory**) | **Charlie Mead, Cecil Lynch, Grahame Grieve** | |
| Other interested parties and their roles |  | |
| Multi-disciplinary project team (recommended) |  | |
| Modeling facilitator | **Lloyd McKenzie** | |
| Publishing facilitator |  | |
| Vocabulary facilitator | **Cecil Lynch, Rob Hausam** | |
| Domain expert rep |  | |
| Business requirement analyst |  | |
| Conformance facilitator (for IG projects) |  | |
| Other facilitators (SOA, etc) |  | |
|  |  | |
| Implementers **(2** **Mandatory** for DSTU projects)  ***FHIR Project Note:*** *The implementer requirement will be handled by the “balloting” project. Therefore work groups do not fill out the above section. However, feel free to list implementers specific to your work group’s resources if you know of any.* | | |
| 1) | | |
| 2) | | |

1. Project Definition
   1. Project Scope

|  |
| --- |
| **The scope of this project is to define, design, develop, and demonstrate how tools based on RDF/semantic technologies can be used as part of the FHIR specification process to ensure that FHIR specifications (and FHIR profiles) that fall within the jurisdiction of HL7 balloted artifacts can facilitate the development of computable semantic links between FHIR artifacts and RIM semantic artifacts, where RIM mappings are appropriate. FHIR Infrastructure will administer the project, ensuring that deliverables are met, and that the processes are viable.** |

* 1. Project Need

|  |
| --- |
| **The importance of utilizing the rich semantics of the RIM in the context of FHIR specifications and profiles is (or should be) a core construct of “HL7 architecture.” At present, the “documentation” of FHIR/RIM links is, at best, done in free text as part of a given FHIR specification, and many times not done at all. Failure to provide computable links will, in the end, lead to specifications whose interoperability is based on knowledgeable human coherence at specification time and which does not take advantage of the considerable efforts already expended to define formal RIM structures.**  **RDF provides a standard, open technology on which to build links. The Pharmacy Work Group has a virtually complete set of “text links” to RIM semantics that they have included in their FHIR specifications, and the ITS RDF group has the technical knowledge and interest in working to build tools that could be integrated into the FHIR specification package to enable specification authors to specify links that are, in fact, computable using standard RDF/SPARQL technologies.**  **This project is scoped to Pharmacy links. Once completed with a clear methodology and tools in place, a second project to bring current FHIR specifications into compliance will be necessary.** |

* 1. Success Criteria

*.*

|  |
| --- |
| **Computable links (expressed in RDF) between Pharmacy FHIR specifications and RIM semantics previously defined by Pharmacy** |

* 1. Project Risks

|  |  |  |
| --- | --- | --- |
| Risk Description: | **The risks for HL7 relate to NOT developing computable links between FHIR and the RIM** | |
| Impact: | | |  |  |  |  | | --- | --- | --- | --- | | Critical | Serious | Significant | Low | |
| Likelihood: | | |  |  |  | | --- | --- | --- | | High | Med | Low | |
| Risk Type: | | |  |  |  |  | | --- | --- | --- | --- | | Requirements | Resources | Social-Political | Technology | |
| Risk To HL7: | | |  |  |  |  | | --- | --- | --- | --- | | Internal to HL7 |  | External to HL7 |  | |
| Mitigation Plan: | **This project mitigates this risk.** | |
|  | | |

* 1. Security Risks

|  |  |  |  |
| --- | --- | --- | --- |
| Will this project produce executable(s), for example, schemas, transforms, stylesheets, executable program, etc. If so the project must review and document security risks. | Yes | No | Unknown |

* 1. External Drivers

|  |
| --- |
| **Describe any external schedules or calendars which may not be known outside of the project team that are driving target dates for this project.** |

* 1. Project Objectives / Deliverables / Target Dates

|  |  |
| --- | --- |
| *Within each row, enter the explicit work product(s) / objective(s). Indicate their target date at the right in WGM/Ballot Cycle format. Include the project end date as the last objective (for standards projects, the end date will be the projected ANSI approval date).*  [*Click here*](#Project_Obj_Del_TgtDates_help) *for further information, FHIR project instructions, and an* [*EXAMPLE*](#Project_Obj_Del_TgtDates_Example_help) | **Target Date** *(in WGM or ballot cycle format, e.g.*  *‘2010 Sept WGM’ or*  *‘2010 Jan Ballot’)* |
| **Tooling to support generation of computable semantic links between FHIR specifications and RIM artifacts. INITIAL PROJECT WILL BE LIMITED TO FHIR ARTIFACTS DEVELOPED BY Pharmacy WORK GROUP AS A DEMONSTRATION OF EFFORT AND VALUE PROPOSITION** | **Jan 2016** |
| **Recommend strategy for enforcing semantic links in FHIR** | **Jan 2016** |
| **Project End Date (all objectives have been met)** | **Jan 2016** |
| **FHIR Project Tasks:** | **N/A** |
| **Resource and/or Profile proposals have been submitted and endorsed for development by FHIR Management Group (FMG)** | **N/A** |
| **FHIR content ready for inclusion in FHIR DSTU ballot** | **N/A** |
| **FHIR content passes DSTU ballot** | **N/A** |

* 1. Common Names / Keywords / Aliases

|  |
| --- |
| **What common name does your group use to refer to the product(s) produced? What alternative names, aliases and keywords does your group use to refer to the product(s) that will be produced? Some examples: C-CDA, LRI, eDOS.** |

* 1. Lineage

|  |
| --- |
| **N/A** |

* 1. Project Requirements

|  |
| --- |
| **http://wiki.hl7.org/index.php?title=Computable\_semantic\_links\_from\_FHIR** |

* 1. Project Dependencies

|  |
| --- |
| **N/A** |

* 1. Project Document Repository Location

|  |
| --- |
| **http://wiki.hl7.org/index.php?title=Computable\_semantic\_links\_from\_FHIR** |

* 1. Backwards Compatibility

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Are the items being produced by this project backward compatible? | Yes | No | Unknown | N/A |
|  | | | | |
| For V3, are you using the current data types?  (Refer to [TSC position statement on new projects using R2B](#TSC_position_statement_on_R2B) for more information on the current V3 data types) | Yes | No |  |  |
| If you check 'No' please explain the reason: | | | | |
| as utilized by FHIR tooling | | | | |

* 1. External Vocabularies

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Will this project include/reference external vocabularies? | Yes | No | Unknown | N/A |
| When required by FHIR specifications or profiles | | | | |

1. Products

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | |  | Non Product Project- (Educ. Marketing, Elec. Services, etc.) | | | |  |  | | --- | --- | |  | V3 Domain Information Model (DIM / DMIM) | |
| |  |  | | --- | --- | |  | Arden Syntax | | | |  |  | | --- | --- | |  | V3 Documents – Administrative (e.g. SPL) | |
| |  |  | | --- | --- | |  | Clinical Context Object Workgroup (CCOW) | | | |  |  | | --- | --- | |  | V3 Documents – Clinical (e.g. CDA) | |
| |  |  | | --- | --- | |  | Domain Analysis Model (DAM) | | | |  |  | | --- | --- | |  | V3 Documents - Knowledge | |
| |  |  | | --- | --- | |  | Electronic Health Record (EHR) Functional Profile | | | |  |  | | --- | --- | |  | V3 Foundation – RIM | |
| |  |  | | --- | --- | |  | Logical Model | | | |  |  | | --- | --- | |  | V3 Foundation – Vocab Domains & Value Sets | |
| |  |  | | --- | --- | |  | V2 Messages – Administrative | | | |  |  | | --- | --- | |  | V3 Messages - Administrative | |
| |  |  | | --- | --- | |  | V2 Messages - Clinical | | | |  |  | | --- | --- | |  | V3 Messages - Clinical | |
| |  |  | | --- | --- | |  | V2 Messages - Departmental | | | |  |  | | --- | --- | |  | V3 Messages - Departmental | |
| |  |  | | --- | --- | |  | V2 Messages – Infrastructure | | | |  |  | | --- | --- | |  | V3 Messages - Infrastructure | |
| |  |  | | --- | --- | |  | FHIR Resources | | | |  |  | | --- | --- | |  | V3 Rules - GELLO | |
| |  |  | | --- | --- | |  | FHIR Profiles | | | |  |  | | --- | --- | |  | V3 Services – Java Services (ITS Work Group) | |
| |  |  | | --- | --- | |  | New/Modified/HL7 Policy/Procedure/Process | | | |  |  | | --- | --- | |  | V3 Services – Web Services (SOA) | |
| |  |  | | --- | --- | |  | New Product Definition | |  | |
| |  |  | | --- | --- | |  | New Product Family | |  | |
|  | | |

1. Project Intent (check all that apply)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | |  | Create new standard | |  | Revise current standard (**see text box below**) | |  | Reaffirmation of a standard | |  | New/Modified HL7 Policy/Procedure/Process | |  | Withdraw an Informative Document | |  | N/A (Project not directly related to an HL7 Standard) | | |  |  |  |  |  | | --- | --- | --- | --- | --- | |  | | Supplement to a current standard | | | |  | | Implementation Guide (IG) will be created/modified | | | |  | Project is adopting/endorsing an externally developed IG: Specify external organization in Sec. 6 below;  Externally developed IG is to be (select one): | | | | |  | Adopted - OR - | |  | Endorsed | |
|  | |

* 1. Ballot Type (check all that apply)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | |  | Comment Only | |  | Informative | |  | DSTU to Normative | | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | |  | | Normative (no DSTU) | |  | Joint Ballot (with other SDOs or HL7 Work Groups) | | |  | N/A (project won’t go through ballot) | | | |
|  | |

* 1. Joint Copyright

|  |  |  |
| --- | --- | --- |
| |  |  | | --- | --- | |  | Joint Copyrighted Material will be produced | |

1. Project Logistics
   1. External Project Collaboration

|  |  |  |
| --- | --- | --- |
| **N/A** | | |
| For projects that have some of their content already developed: | | |
| How much content for this project is already developed? | **N/A** | |
| Was the content externally developed (Y/N)? |  | |
| Date of external content review by the ARB? |  | |
| Is this a hosted (externally funded) project? (not asking for amount just if funded) | Yes | No |

* 1. Realm

|  |  |  |  |
| --- | --- | --- | --- |
| |  |  | | --- | --- | |  | Universal | | Realm Specific |
|  | Check here if this standard balloted or was previously approved as realm specific standard |
|  | **Enter “U.S.” or name of HL7 affiliate(s) here. For projects producing deliverables applicable to multiple realms, document those details here.** |

* 1. Project Approval Dates

|  |  |
| --- | --- |
| Affiliate/US Realm Task Force Approval Date  (for US Realm Specific Projects) | **N/A** |
| Sponsoring Work Group Approval Date | **2015-06-16** |
| Steering Division Approval Date | **N/A** |
| |  |  |  | | --- | --- | --- | | [PBS Metrics and Work Group Health Reviewed](http://gforge.hl7.org/gf/download/docmanfileversion/7241/10172/PBSMetricGuidanceforSDCoChairs2013Final.doc)? (required for SD Approval) | Yes | No | | |
| FHIR Project: FHIR Management Group Approval Date | **FMG Approval Date CCYY-MM-DD** |
|  | |
| Technical Steering Committee Approval Date | **TSC Approval Date CCYY-MM-DD** |
| |  |  |  | | --- | --- | --- | | TSC has received a Copyright/Distribution Agreement (which contains the verbiage outlined within the SOU), signed by both parties. | Yes | No | | |

* 1. Stakeholders / Vendors / Providers

*This section must be completed for projects containing items expected to be ANSI approved, as it is an ANSI requirement for all ballots*

|  |  |  |
| --- | --- | --- |
| **Stakeholders** | **Vendors** | **Providers** |
| Clinical and Public Health Laboratories | Pharmaceutical | Clinical and Public Health Laboratories |
| Immunization Registries | EHR, PHR | Emergency Services |
| Quality Reporting Agencies | Equipment | Local and State Departments of Health |
| Regulatory Agency | Health Care IT | Medical Imaging Service |
| Standards Development Organizations (SDOs) | Clinical Decision Support Systems | Healthcare Institutions (hospitals, long term care, home care, mental health) |
| Payors | Lab | Other (specify in text box below) |
| Other (specify in text box below) | HIS | N/A |
| N/A | Other (specify below) |  |
|  | N/A |  |
| |  | | --- | | **Other: Anyone interested in using HL7 balloted FHIR specs (probably includes all in this list)** | | | |



|  |  |  |
| --- | --- | --- |
| Check all SDO / Profilers which your project deliverable(s) are associated with. | | |
| ASC X12 | CHA | LOINC |
| AHIP | DICOM | NCPDP |
| ASTM | GS1 | NAACCR |
| BioPharma Association (SAFE) | IEEE | Object Management Group (OMG) |
| CEN/TC 251 | IHE | The Health Story Project |
| CHCF | IHTSDO | WEDI |
| CLSI | ISO | Other (specify below) |
| **N/A** | | |