1. Project Name and ID

|  |  |
| --- | --- |
|  |  |
| **Query Language Analysis** | Project ID:  |
|

|  |  |
| --- | --- |
| [ ]  | TSC Notification Informative/DSTU to Normative Date :  |

 |  |
| **Check this box when the project proceeds from Informative to Normative or DSTU to Normative status. Forward to the TSC for notification, as this triggers American National Standards Institute (ANSI) Project Initiation Notification (PINS) submission.**  |
|

|  |  |
| --- | --- |
| [ ]  | Investigative Project Date :  |

 |
| **Check this box when the project is investigative or exploratory in nature, which allows limited project scope definition. Sections in bold outline are mandatory for project approval of an investigative project; all other sections are optional. (Sections 1, 2, 3a, 3b, 3g [limited, 6b [if known], and 6c [applicable] are required).** **Investigative Project specific instructions are yellow highlighted.****An investigative project must advance in two WGM cycles, requiring a full scope statement. Otherwise the project will be closed.**  |

1. Sponsoring Group(s) / Project Team

|  |  |
| --- | --- |
| Primary Sponsor/Work Group (**1 Mandatory**)  | **Implementable Technology Specifications** |
| Co-sponsor Work Group(s) | FHIR Infrastructure, Clinical Decision Support, Clinical Quality Information |
| 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. |
| [x]  | Other Involvement. Specify details here:  | Members of each work group will form a sub-team and work together on the project, providing periodic updates back to their respective work groups. |

 |
|  |  |
| **Project Team:** |  |
| Project facilitator (**1** **Mandatory**) | **Bryn Rhodes, Ewout Kramer** |
| Other interested parties and their roles | Patty Craig |
| Multi-disciplinary project team (recommended) |  |
|  Modeling facilitator | **Enter a name here (or ask MnM for a name).** |
|  Publishing facilitator | Bryn Rhodes, Ewout Kramer |
|  Vocabulary facilitator | **Enter a name here (or ask Vocab for a name)** |
|  Domain expert rep | Claude Nanjo, Marc Hadley |
|  Business requirement analyst |  |
|  Conformance facilitator (for IG projects) |  |
|  Other facilitators (SOA, SAIF) |  |
|  |  |
| 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) MITRE |
| 2) Clinical Quality Framework initiative |
| 3) Joint Commission |
| 4) FHIR Infrastructure |
| 5) ESAC, Inc. |

1. Project Definition
	1. Project Scope

|  |
| --- |
| **This project will create a single combined query language that meets the requirements of FHIRPath, (a graph query language proposed for use within the FHIR specification) and Clinical Quality Language (CQL), (an HL7 STU for representing clinical quality logic), and which can be profiled to more appropriately meet the specific requirements of each setting.****The project will also examine whether other query requirements can be met as part of this initiative.** |

* 1. Project Need

|  |
| --- |
| **There are numerous requirements within the FHIR specification for the use of a graph query language. These requirements overlap the requirements for Clinical Quality Language, but introduce additional requirements that are not met by CQL. This project will seek to align the specifications into a single specification.** |

* 1. Success Criteria

|  |
| --- |
| **There is a single specification that passes STU ballot.** |

* 1. Project Risks

|  |  |
| --- | --- |
| Risk Description:  | **Backwards compatibility with CQF may be lost, adversely affecting current implementers and causing hesitation to implement by potential future implementers.** |
| Impact:  |

|  |  |  |  |
| --- | --- | --- | --- |
| [ ]  Critical | [x]  Serious | [ ]  Significant | [ ]  Low |

 |
| Likelihood:  |

|  |  |  |
| --- | --- | --- |
| [ ]  High | [ ]  Med | [x]  Low |

 |
| Risk Type:  |

|  |  |  |  |
| --- | --- | --- | --- |
| [ ]  Requirements | [ ]  Resources | [ ]  Social-Political | [x]  Technology |

 |
| Risk To HL7:  |

|  |  |  |  |
| --- | --- | --- | --- |
| [x]  Internal to HL7 |  | [ ]  External to HL7 |  |

 |
| Mitigation Plan:  | **Backwards compatibility will be maintained to the greatest extent possible.** |
| **Copy this entire table as needed to define multiple project risks.** |
|

|  |  |
| --- | --- |
| Risk Description:  | **Project delays could (i) hinder ability to make progress on downstream specifications and (ii) make it more difficult to achieve harmonization due to independent development of component specifications.**  |
| Impact:  |

|  |  |  |  |
| --- | --- | --- | --- |
| [ ]  Critical | [x]  Serious | [ ]  Significant | [ ]  Low |

 |
| Likelihood:  |

|  |  |  |
| --- | --- | --- |
| [ ]  High | [ ]  Med | [x]  Low |

 |
| Risk Type:  |

|  |  |  |  |
| --- | --- | --- | --- |
| [ ]  Requirements | [ ]  Resources | [ ]  Social-Political | [x]  Technology |

 |
| Risk To HL7:  |

|  |  |  |  |
| --- | --- | --- | --- |
| [x]  Internal to HL7 |  | [ ]  External to HL7 |  |

 |
| Mitigation Plan:  | **Initial harmonization has already begun. The project team will work as fast as possible.** |
| **Copy this entire table as needed to define multiple project risks.** |
|  |

|  |  |
| --- | --- |
| Risk Description:  | **Including too many additional candidate specifications to harmonize could result in an unmanageable scope and timelines.**  |
| Impact:  |

|  |  |  |  |
| --- | --- | --- | --- |
| [ ]  Critical | [x]  Serious | [ ]  Significant | [ ]  Low |

 |
| Likelihood:  |

|  |  |  |
| --- | --- | --- |
| [ ]  High | [ ]  Med | [x]  Low |

 |
| Risk Type:  |

|  |  |  |  |
| --- | --- | --- | --- |
| [ ]  Requirements | [ ]  Resources | [ ]  Social-Political | [x]  Technology |

 |
| Risk To HL7:  |

|  |  |  |  |
| --- | --- | --- | --- |
| [x]  Internal to HL7 |  | [ ]  External to HL7 |  |

 |
| Mitigation Plan:  | **Harmonization of other related specifications was already completed for CQL. The requirements are well understood. Assessment of candidates therefore can be accomplished quickly.** |
| **Copy this entire table as needed to define multiple project risks.** |
|  |

 |

* 1. Security Risks [renumber later]

|  |  |  |  |
| --- | --- | --- | --- |
| 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 | [x]  No | [ ]  Unknown |

* 1. External Drivers

|  |
| --- |
| **No known external drivers.** |

* 1. Project Objectives / Deliverables / Target Dates

|  |  |
| --- | --- |
|  | **Target Date**  |
| **STU Ballot Submission** | **May 2016** |
| Comment Reconciliation | August 2016 |
| Published STU | September 2016 |
| Normative ballot submission (attempt to coordinate with FHIR normative ballot) | September 2018 |
| Published normative | December 2018 |

* 1. Common Names / Keywords / Aliases

|  |
| --- |
| **FHIRPath, CQL, CPath** |

* 1. Lineage

|  |
| --- |
|  |

* 1. Project Requirements

|  |
| --- |
| **Requirements for the graph query language are a subset of the requirements for reasoning defined in** [**http://www.hl7.org/implement/standards/product\_brief.cfm?product\_id=359**](http://www.hl7.org/implement/standards/product_brief.cfm?product_id=359) **plus additional requirements for use within the FHIR specification as detailed here:**[**http://www.healthintersections.com.au/?s=fhirpath**](http://www.healthintersections.com.au/?s=fhirpath)**.** |

* 1. Project Dependencies

|  |
| --- |
| **None** |

* 1. Project Document Repository Location

|  |
| --- |
| **Enter the SPECIFIC URL where supporting project documents, deliverables, ballot reconciliation work and other project information will be kept. A template to create a Project Page on the HL7 Wiki is available at: http://wiki.hl7.org/index.php?title=Template:Project\_Page.** **[Will specify]** |

* 1. Backwards Compatibility

[*Click here*](#Backwards_Compatibility_help) *to go to Appendix A for more information regarding this section and FHIR project instructions.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Are the items being produced by this project backward compatible? | [x]  Yes | [ ]  No | [ ]  Unknown | [ ]  N/A |
|  |
| For V3, are you using the current data types?  | [ ]  Yes | [ ]  No |  |  |
| If you check 'No' please explain the reason:  |
| **If desired, enter additional information regarding Backwards Compatibility.** |

* 1. External Vocabularies

[*Click here*](#External_Vocabularies_help) *to go to Appendix A for more information regarding this section.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Will this project include/reference external vocabularies? | [ ]  Yes | [x]  No | [ ]  Unknown | [ ]  N/A |
| If yes, please list the vocabularies: |

1. Products

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
| [ ]  | Non Product Project- (Educ. Marketing, Elec. Services, etc.)  |

 |

|  |  |
| --- | --- |
| [ ]  | V3 Domain Information Model (DIM / DMIM) |

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|

|  |  |
| --- | --- |
| [ ]  | Arden Syntax |

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|  |  |
| --- | --- |
| [ ]  | V3 Documents – Administrative (e.g. SPL) |

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|  |  |
| --- | --- |
| [ ]  | Clinical Context Object Workgroup (CCOW) |

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|  |  |
| --- | --- |
| [ ]  | V3 Documents – Clinical (e.g. CDA) |

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| --- | --- |
| [ ]  | Domain Analysis Model (DAM) |

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| --- | --- |
| [ ]  | V3 Documents - Knowledge |

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|

|  |  |
| --- | --- |
| [ ]  | Electronic Health Record (EHR) Functional Profile |

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|  |  |
| --- | --- |
| [ ]  | V3 Foundation – RIM |

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|

|  |  |
| --- | --- |
| [ ]  | Logical Model |

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|  |  |
| --- | --- |
| [ ]  | V3 Foundation – Vocab Domains & Value Sets |

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| --- | --- |
| [ ]  | V2 Messages – Administrative |

 |

|  |  |
| --- | --- |
| [ ]  | V3 Messages - Administrative |

 |
|

|  |  |
| --- | --- |
| [ ]  | V2 Messages - Clinical |

 |

|  |  |
| --- | --- |
| [ ]  | V3 Messages - Clinical |

 |
|

|  |  |
| --- | --- |
| [ ]  | V2 Messages - Departmental |

 |

|  |  |
| --- | --- |
| [ ]  | V3 Messages - Departmental |

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| --- | --- |
| [ ]  | V2 Messages – Infrastructure |

 |

|  |  |
| --- | --- |
| [ ]  | V3 Messages - Infrastructure |

 |
|

|  |  |
| --- | --- |
| [x]  | FHIR Resources |

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|  |  |
| --- | --- |
| [ ]  | V3 Rules - GELLO |

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|  |  |
| --- | --- |
| [x]  | FHIR Profiles |

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|  |  |
| --- | --- |
| [ ]  | V3 Services – Java Services (ITS Work Group) |

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|

|  |  |
| --- | --- |
| [ ]  | New/Modified/HL7 Policy/Procedure/Process |

 |

|  |  |
| --- | --- |
| [ ]  | V3 Services – Web Services (SOA) |

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|

|  |  |
| --- | --- |
| [ ]  | New Product Definition |

 |  |
|

|  |  |
| --- | --- |
| [ ]  | New Product Family  |

 |  |
| **If you checked New Product Definition or New Product Family, please define below:** |

1. Project Intent (check all that apply)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |  |
| --- | --- |
| [ ]  | Create new standard |
| [x]  | Revise current standard (**see text box below**) |
| [ ]  | Reaffirmation of a standard |
| [ ] [ ]  | New/Modified HL7 Policy/Procedure/ProcessWithdraw 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 |  | Endorsed |

 |
| **[will reference CQL and FHIR spec]****If revising a current standard, indicate the following:*** **Name of the standard being revised**
* **Date it was published (or request for publication, or ANSI designation date)**
* **Rationale for revision**
* **The relationship between the new standard and the current standard (is it designed to replace the current standard, a supplement to the current standard, etc.)**
 |

* 1. Ballot Type (check all that apply)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| --- | --- |
| [ ]  | Comment Only |
| [ ]  | Informative |
| [x]  | DSTU to Normative |

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|

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

 |

 |
| **If necessary, add any additional ballot information here. If artifacts will be jointly balloted with other HL7 Work Groups or other SDOs, list the other groups.** |
|  |

* 1. Joint Copyright

*Check this box if you will be pursuing a joint copyright. Note that when this box is checked, a Joint Copyright Letter of Agreement must be submitted to the TSC in order for the PSS to receive TSC approval.*

|  |  |  |
| --- | --- | --- |
|

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

 |

1. Project Logistics
	1. External Project Collaboration

|  |
| --- |
| **Include SDOs or other external entities you are collaborating with, including government agencies as well as any industry outreach. Indicate the nature and status of the Memorandum of Understanding (MOU) if applicable.** |
| For projects that have some of their content already developed: |
| How much content for this project is already developed? | **Indicate % here** |
| Was the content externally developed (Y/N)?  | **If Yes, list developers** |
| Date of external content review by the ARB? | **Approval date CCYY-MM-DD** |
| Is this a hosted (externally funded) project? (not asking for amount just if funded) | [ ]  Yes | [ ]  No |

* 1. Realm

|  |  |  |  |
| --- | --- | --- | --- |
|

|  |  |
| --- | --- |
| [x]  | 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.****For Investigative projects, indicate if the project is planned to be Realm Specific or Universal, if known. Work Groups are encouraged designating project a Universal project initially, and discover which Realms can contribute to the work effort during the discovery phase of the project. Note: This status is subject to change during the investigative process.**  |

* 1. Project Approval Dates

|  |  |
| --- | --- |
| Affiliate/US Realm Task Force Approval Date (for US Realm Specific Projects) | **USRTF Approval Date CCYY-MM-DD** |
| Sponsoring Work Group Approval Date | **WG Approval Date CCYY-MM-DD** |
| FHIR Project: FHIR Management Group Approval Date | **FMG Approval Date CCYY-MM-DD** |
| Steering Division Approval Date  | **SD Approval Date CCYY-MM-DD** |
|

|  |  |  |
| --- | --- | --- |
| [PBS Metrics and Work Group Health Reviewed](http://gforge.hl7.org/gf/download/docmanfileversion/7241/10172/PBSMetricGuidanceforSDCoChairs2013Final.doc)? (required for SD Approval) | [ ]  Yes | [ ]  No |

 |
| 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** |
| [x]  Clinical and Public Health Laboratories | [x]  Pharmaceutical | [x]  Clinical and Public Health Laboratories |
| [x]  Immunization Registries | [x]  EHR, PHR | [x]  Emergency Services |
| [x]  Quality Reporting Agencies | [x]  Equipment  | [x]  Local and State Departments of Health |
| [x]  Regulatory Agency | [x]  Health Care IT | [x]  Medical Imaging Service |
| [x]  Standards Development Organizations (SDOs)  | [x]  Clinical Decision Support Systems | [x]  Healthcare Institutions (hospitals, long term care, home care, mental health) |
| [x]  Payors  | [x]  Lab | [ ]  Other (specify in text box below) |
| [ ]  Other (specify in text box below) | [x]  HIS | [ ]  N/A |
| [ ]  N/A | [ ]  Other (specify below) |  |
|  | [ ]  N/A |  |
|

|  |
| --- |
| **Other: Indicate other stakeholders, vendors or providers not listed above.** |

 |

* 1. Synchronization With Other SDOs / Profilers

|  |
| --- |
| 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) |
| **For standards and implementation guides (IG) being developed by this project, please indicate:** **- Similarities to standards or IGs from the checked SDO/Profilers** **- How they will be different** **- How overlaps will be coordinated with the checked SDO/Profilers** **- Why coordination is not needed with other SDOs/Profilers** |