

HL7 AU Base Observation - proposed profile

Proposal to create and add a new profile to the HL7 AU Base set of profiles for a HL7 AU Base Observation profile.

Proposed Profile Description	Proposed Metadata	Notes
1st phase Observation, profiled: - Invariant: US Core Result Observation us-core-2: If there is no component or related element then either a value[x] or a data absent reason must be present (Query if required in AU)? - basedOn: change reference from "ProcedureRequest" to "AUBaseProcedureRequest". - status: Binding - DiagnosticReportStatus (required) - Query other options: observation-status (required) as per us-core-observationresults request-status (required) as per STU3; or - Order Status HL7 table 0219 - category: - coding slice, unordered, open, on value:system 0..1 slice coding slice Required Pattern: <pre>{ "coding": [{ "system": "http://hl7.org/fhir/v2/0074", "code": "LAB" }] }</pre> - Questions: - Query change cardinality to 1..* as per us-core-observation us-core-observationresults has an invariant of 'us-core-5: Must have a category of 'laboratory' and a code system 'http://hl7.org/fhir/observation-category'. Query whether to adopt similar and make this a slice for diagnostics. - Subject: Change reference from (Patient Group Device Location) to (AUBasePatient Group AUBaseDevice AUBaseLocation) - effective: Note us-coreobservation has an invariant of 'us-core-1: Datetime must be at least to day.' Query wanting something similar, but this isn't in the current HL7 AU O&O content where OBR-7 is conditional ie 'This field is conditionally required. When the OBR is transmitted as part of a report message, the field must be filled in.' 'If time is transmitted it should be specified to the minimum precision of minutes and the time zone must be included.' - Performer: Change reference from (Practitioner Organization Patient RelatedPerson) to (AUBasePractitioner AUBaseOrganisation AUBasePatient AUBaseRelatedPerson) - value: query using similar invariants to us-core-observation of: us-core-4: SHOULD use Snomed CT for coded Results. (Refer to FTR-248 for NCTIS valueset request) us-core-3: SHALL use UCUM for coded quantity units. - bodySite: - coding slice, unordered, open, on value:system 0..1 slice coding slice Required Pattern: Body Site (SNOMED CT Body Site) - Or create an extension that refers to the AUBaseBodySite profile ??? - specimen - Change reference from (Specimen) to (AUBaseSpecimen)	Name: AUBaseObservation Title: AU Base Observation URI: http://hl7.org.au/fhir/StructureDefinition/au-observation	

"description" : "Australian realm Base Diagnostic Report profile." NOTE: don't edit the long description we want to retain the FHIR STU3 resource long description. 2nd phase Procedure Request, profiled: - code: - coding slice, unordered, open, on value:system 0..1 slice coding slice (LOINC) with required binding Standards for Pathology Informatics in Australia - Reporting codes (required) Note: To be made into a valueset - refer to FTR-248 - slice name is loincPathologyReportingCodes		
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The table below presents a Differential Table view of the proposed profile.

URI: <http://hl7.org.au/fhir/StructureDefinition/au-observation>

Name				Card.	Type	Description & Constraints
Observation					DomainResource	Australian context Observation
	basedOn			0..*	Reference(CarePlan ImmunizationRecommendation MedicationRequest Nutrition Order AUBaseProcedureRequest ReferralRequest)	
	status			0..1	code	Binding options: 1) DiagnosticReportStatus (required) as per STU3 and us-core-diagnosticreport If so, then this row can be deleted as it is not a differential. Or: 2) Result Status HL7 table 0123 (OBR-25 Result status)
	category			0..*	CodeableConcept	
		<i>coding</i>		0..*	<i>Coding</i>	<i>Slice:</i> Unordered, Open by value:system
		coding		0..1	<i>Coding</i>	Pathology Category Required Pattern: {"coding":[{"system":"http://hl7.org/fhir/v2/0074","code":"LAB"}]} Questions: 1) Need to confirm with HL7 Au O&O that "LAB" is appropriate with a report or whether to sue specific codes. 2) Change this to Diagnostics as there are DI options available in table 0074. 3) us-core-observationresults has an invariant of 'us-core-5: Must have a category of 'laboratory' and a code system 'http://hl7.org/fhir/observation-category'. Note: the Australian extension to table 0074 is no longer required as the additional code GE (Genetics) has been included in the international table 0074; hence just use the international table.
	code			1..1	CodeableConcept	
		<i>coding</i>		0..*	<i>Coding</i>	<i>Slice:</i> Unordered, Open by value:system

		coding		0..1	Coding	Pathology Reporting Codes (LOINC) Binding: Standards for Pathology Informatics in Australia - Reporting Codes (required) Note: To be made into a valueset - refer to FTR-248
	subject			1..1	Reference(AUBasePatient Group AUBaseLocation AUBaseDevice)	Query whether this should reference the STU3 default of: "Reference(Patient Group Location Device)" or if the AUBase profiles should be used: "Reference(AUBasePatient Group AUBaseLocation AUBaseDevice)". Check with Brett & Orders and Observations WG.
	effective[x]			0..1	dateTime	Check with O&O to see if an invariant (us-core style) is to be included.
	performer			0..*	Reference(AUBasePractitioner AUBaseOrganisation AUBasePatient AUBaseRelatedPerson)	
	value[x]			0..1	Quantity, CodeableConcept, string, boolean, Range, Ratio, SampledData, Attachment, time, dateTime, Period	Query if us-core style invariants should be incorporated - check the HL7 AU O&O. Result Value us-core-4: SHOULD use Snomed CT for coded Results (Refer to FTR-248 for NCTIS valueset request) us-core-3: SHALL use UCUM for coded quantity units.
	bodySite			0..1	CodeableConcept	OR have an 'extension' to refer to the AUBaseBodySite profile
		coding		0..*	Coding	Slice: <i>Unordered, Open by value:system</i>
		coding		0..1	Coding	Coded anatomical location Binding: https://healthterminologies.gov.au/fhir/ValueSet/body-site-1 (required)
	specimen			0..*	Reference(AU Base Specimen)	Note: Changed to "AU Base Specimen" rather than "Specimen".