

# Gap Analysis for S&I Framework Lab guides to IHE Lab TF



## Standards and Systems

Laboratory Technical Framework – especially the Trial Implementations for Laboratory Testing Workflow (LTW) and the newly proposed Laboratory Clinical Communications (LCC) to:

HL7 Version 2.5.1 Implementation Guide: S&I Framework Lab Results Interface, Release 1- US Realm

HL7 Version 2.5.1 Implementation Guide: S&I Framework Laboratory Orders from EHR, Release 1 - US Realm

Laboratory Code Sets Distribution Profile to:

HL7 Version 2.5.1 Implementation Guide: S&I Framework Laboratory Test Compendium Framework, Release 2 US Realm



## The comparisons made

LOI to LAB-1 (hope in future will also support LAB-2 functionality)

LRI and ELR to LAB-3

eDOS to LCSD

# The approach

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
NTE	COMMENTS SEGMENT	LOI GUIDE										LOI GUIDE					
		DT	GU Usage	NG Usage	PH Usage	PH Component Delta	PH Component Special	Cardinality	Len	C.Len	Value Set	Comments CP, CS	DT	Usage	Cardinality	Len	Value Set
Location	Element Name	DT	GU Usage	NG Usage	PH Usage	PH Component Delta	PH Component Special	Cardinality	Len	C.Len	Value Set	Comments CP, CS	DT	Usage	Cardinality	Len	Value Set
NTE.1	Set ID - NTE	SI	R	R	R			[1..1]				CS: Shall be valued sequentially starting with the value '1' within a given segment group.	SI	R	[1..1]	4	
NTE.2	Source of Comment		O	O	O								ID	RE	[0..1]	8	IHE defined allowed are: L, P, A, O
NTE.3[1]	Comment	FT	R	R	R			[1..*]					FT	RE	[0..1]	1..65536	
NTE.4	Comment Type	CWE	O	O	O								CE	RE	[0..1]	250	
NTE.4.1	Identifier		O	O	O								ST				IHE defined allowed are: I, C, P
NTE.4.2	Text		O	O	O								ST				
NTE.4.3	Name of Coding System		O	O	O								ID				
NTE.4.4	Alternate Identifier		O	O	O								ST				
NTE.4.5	Alternate Text		O	O	O								ST				
NTE.4.6	Name of Alternate Coding System		O	O	O								ID				
NTE.4.7	Coding System Version ID		O	O	O								N/A	N/A	N/A	N/A	N/A
NTE.4.8	Alternate Coding System Version ID		O	O	O								N/A	N/A	N/A	N/A	N/A
NTE.4.9	Original Text		O	O	O								N/A	N/A	N/A	N/A	N/A

Segment Description (1) NewApp / Segment Description (2) CancelR / MSH / PID / PV1 / ORC / TQ1 / OBR / NTE / OBX / SPM / PRT / NK1 / DG1 / GT1 / IN1 / datatypes / Segment Description ORL / Segment Description AC



## Overall Findings

- S&I guides use a lot of pre-adoption:
  - New datatypes
  - New segments
  - New vocabulary

As long as done right, should be backwards compatible

- S&I guides created data type flavors (need to still compare all IHE field notes to flavors)
- In several places IHE Profile more restrictive:
  - Use of O in S&I – use of X, RE, C or R in IHE Profile
  - Use of RE in S&I – use of C in IHE Profile
  - IHE Profile sometimes the CP not computable

## LOI to LAB-1

See xls spreadsheet



## LRI to LAB-3

See xls spreadsheet



## ELR to LAB-3

Since this is a profile on LRI, all items from LRI apply PLUS:  
same spreadsheet as LRI – delta between LRI GU profile and ELR are orange



## eDOS to LCSD

### S&I uses

MFN^M08 – all atomic entries (numeric, categorical, calculated)

MFN^M10 – batteries, profiles

MFN^M04 – charge code

Supports initial load

AND Updates

### IHE uses

MFN^M08

MFN^M09

MFN^M11

MFN^M10

MFN^M04

Supports initial load only