

Tutorial: Interoperability Types

Source 1:

ID	Name	Tel	Date of Birth	Values	Report	Type
0011-1	A Dawood	0097222334444	1 Apr 78		Hypertension	Diagnosis
0011-1	A Dawood	22334444	1 Apr 78	5000 mcL	WBC	Labtest
00111	Dawood	593306070	1 Apr 78	90mg	Nadolol	Drug

Source 2:

ID	Name	DoB	Tel	Action	Finding	Values
1-111	A F	1/01/1965	0097222443344	Diagnosis	Diabetes type-1	
1-111	A F	1/01/1965	22654455	Labtest	Hba1c	7.5 %
1-111	F A	1/01/1965	593303050	Drug	Metformin	500mg

Write the above data for Source 1 and Source 2, to send as messages, to meet the following interoperability requirements:

- 1- Structural Interoperability
- 2- Syntactic interoperability
- 3- Semantic Interoperability

Assume the sent data will be sent for

- Integration purpose, to an integration system that integrates data from several heterogeneous sources
- Interoperability purpose, where systems at Source-1 and Source-2 need to continually interoperate the data.