

Technical HL7 Conformance Profile

Enterprise Imaging

WS PDQ Inbound K22

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Message Profile

Conformance parameters

Message Profile

- HL7 Version: 2.5
- Profile Type: HL7

Encoding Method

ER7

Interaction 1

Dynamic Definition

- Accept Acknowledgement: NE
- Application Acknowledgement: AL
- Acknowledgement Mode: Deferred

Static Definition

- Event Description: RSP - Find candidates response
- Message Type: RSP
- Trigger Event: K22
- Message Structure: RSP_K22

Message structure

MSH MSA QAK QPD PID

MSH - Message Header

- Usage: Required
- Cardinality:1..1

Seq.	Name	Opt.	Card.	Type	Table	Contents
1	Field Separator	R	1..1	ST		e.g.
2	Encoding Characters	R	1..1	ST		e.g. ^~\&
3	Sending Application	R	1..1	HD	HL70361	
3.1	namespace ID	R	1..1	IS	HL70300	e.g. MESA_PD_SUPPLIER
3.2	universal ID	C	0..	ST		
3.3	universal ID type	C	0..	ID	HL70301	
4	Sending Facility	R	1..1	HD	HL70362	
4.1	namespace ID	R	1..1	IS	HL70300	e.g. XYZ_HOSPITAL
4.2	universal ID	C	0..	ST		
4.3	universal ID type	C	0..	ID	HL70301	
5	Receiving Application	R	1..1	HD	HL70361	
5.1	namespace ID	R	1..1	IS	HL70300	e.g. XERO
5.2	universal ID	C	0..	ST		
5.3	universal ID type	C	0..	ID	HL70301	
6	Receiving Facility	R	1..1	HD	HL70362	
6.1	namespace ID	R	1..1	IS	HL70300	e.g. AGFA
6.2	universal ID	C	0..	ST		
6.3	universal ID type	C	0..	ID	HL70301	
7	Date/Time Of Message	R	1..1	TS		
7.1	time	R	1..1	DTM		e.g. 20150126134831-0500
7.2	degree of precision	B	..	ST	HL70529	e.g. D
8	Security	O	0..1	ST		

Seq.	Name	Opt.	Card.	Type	Table	Contents
9	Message Type	R	1..1	MSG		
9.1	message code	R	1..1	ID	HL70076	e.g. RSP
9.2	trigger event	R	1..1	ID	HL70003	e.g. K22
9.3	message structure	R	1..1	ID	HL70354	
10	Message Control ID	R	1..1	ST		e.g. af2293314b2792dd701
11	Processing ID	R	1..1	PT		
11.1	processing ID	R	1..1	ID	HL70103	e.g. P
11.2	processing mode	O	0..	ID	HL70207	
12	Version ID	R	1..1	VID		
12.1	version ID	R	1..1	ID	HL70104	e.g. 2.5
12.2	internationalization code	O	0..	CE	HL70399	
12.2.1	identifier	O	0..	ST		
12.2.2	text	O	0..	ST		
12.2.3	name of coding system	O	0..	ID	HL70396	
12.2.4	alternate identifier	O	0..	ST		
12.2.5	alternate text	O	0..	ST		
12.2.6	name of alternate coding system	O	0..	ID	HL70396	
12.3	international version ID	O	0..	CE		
12.3.1	identifier	O	0..	ST		
12.3.2	text	O	0..	ST		
12.3.3	name of coding system	O	0..	ID	HL70396	
12.3.4	alternate identifier	O	0..	ST		
12.3.5	alternate text	O	0..	ST		
12.3.6	name of alternate coding system	O	0..	ID	HL70396	
13	Sequence Number	O	0..1	NM		
14	Continuation Pointer	O	0..1	ST		
15	Accept Acknowledgment Type	O	0..1	ID	HL70155	
16	Application Acknowledgment Type	O	0..1	ID	HL70155	
17	Country Code	O	0..1	ID	HL70399	
18	Character Set	O	0..*	ID	HL70211	
19	Principal Language Of Message	O	0..1	CE		
19.1	identifier	O	0..	ST		
19.2	text	O	0..	ST		
19.3	name of coding system	O	0..	ID	HL70396	
19.4	alternate identifier	O	0..	ST		
19.5	alternate text	O	0..	ST		
19.6	name of alternate coding system	O	0..	ID	HL70396	

Seq.	Name	Opt.	Card.	Type	Table	Contents
20	Alternate Character Set Handling Scheme	O	0..1	ID	HL70356	
21	Message Profile Identifier	O	0..*	EI		
21.1	entity identifier	O	0..	ST		
21.2	namespace ID	O	0..	IS	HL70363	
21.3	universal ID	C	0..	ST		
21.4	universal ID type	C	0..	ID	HL70301	

1. Field Separator

2. Encoding Characters

3. Sending Application

3.2. universal ID

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

3.3. universal ID type

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

4. Sending Facility

4.2. universal ID

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three

components of the HD are valued, the first component defines a member in the set defined by the second and third components.

4.3. universal ID type

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

5. Receiving Application

5.2. universal ID

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

5.3. universal ID type

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

6. Receiving Facility

6.2. universal ID

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three

taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

6.3. universal ID type

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

7. Date/Time Of Message

7.2. degree of precision

Retained for backward compatibility only

8. Security

9. Message Type

10. Message Control ID

11. Processing ID

12. Version ID

13. Sequence Number

14. Continuation Pointer

15. Accept Acknowledgment Type

16. Application Acknowledgment Type

17. Country Code

18. Character Set

19. Principal Language Of Message

20. Alternate Character Set Handling Scheme

21. Message Profile Identifier

MSA - Message Acknowledgment

- Usage: Required
- Cardinality:1..1

Seq.	Name	Opt.	Card.	Type	Table	Contents
1	Acknowledgment Code	R	1..1	ID	HL70008	e.g. AA
2	Message Control ID	R	1..1	ST		e.g. AGFA-ea61cee6-c577-48f9-995d-33d4ecf2d038
3	Text Message	B	0..*	ST		
4	Expected Sequence Number	O	0..1	NM		
6	Error Condition	B	0..*	CE	HL70357	
6.1	identifier	O	0..	ST		
6.2	text	O	0..	ST		
6.3	name of coding system	O	0..	ID	HL70396	
6.4	alternate identifier	O	0..	ST		
6.5	alternate text	O	0..	ST		
6.6	name of alternate coding system	O	0..	ID	HL70396	

1. Acknowledgment Code

2. Message Control ID

3. Text Message

4. Expected Sequence Number

6. Error Condition

QAK - Query Acknowledgment

- Usage: Required
- Cardinality:1..1

Seq.	Name	Opt.	Card.	Type	Table	Contents
1	Query Tag	R	1..1	ST		e.g. QUERY-2222f594-aeec-4821-a5c2-ebdd95c2af07
2	Query Response Status	R	1..1	ID	HL70208	e.g. OK
3	Message Query Name	O	0..1	CE	HL70471	
3.1	identifier	O	0..	ST		
3.2	text	O	0..	ST		
3.3	name of coding system	O	0..	ID	HL70396	
3.4	alternate identifier	O	0..	ST		
3.5	alternate text	O	0..	ST		
3.6	name of alternate coding system	O	0..	ID	HL70396	
4	Hit Count	R	1..1	NM		e.g. 1
5	This payload	R	1..1	NM		e.g. 1

Seq.	Name	Opt.	Card.	Type	Table	Contents
6	Hits remaining	R	1..1	NM		e.g. 0

1. Query Tag

2. Query Response Status

3. Message Query Name

4. Hit Count

5. This payload

6. Hits remaining

QPD - Query Parameter Definition

- Usage: Required

- Cardinality:1..1

Seq.	Name	Opt.	Card.	Type	Table	Contents
1	Message Query Name	R	1..1	CE	HL70471	
1.1	identifier	R	1..1	ST		e.g. IHE PDQ Query
1.2	text	O	0..	ST		
1.3	name of coding system	O	0..	ID	HL70396	
1.4	alternate identifier	O	0..	ST		
1.5	alternate text	O	0..	ST		
1.6	name of alternate coding system	O	0..	ID	HL70396	
2	Query Tag	R	1..1	ST		e.g. QUERY-2222f594-aeee-4821-a5c2-ebdd95c2af07
3	User Parameters (in successive fields)	O	0..2	varies		
4	User Parameters (in successive fields)	O	0..1	varies		
5	User Parameters (in successive fields)	O	0..1	varies		
6	User Parameters (in successive fields)	O	0..1	varies		

1. Message Query Name

2. Query Tag

3. User Parameters (in successive fields)

4. User Parameters (in successive fields)

5. User Parameters (in successive fields)

6. User Parameters (in successive fields)

PID - Patient Identification

- Usage: Required

- Cardinality:1..1

Seq.	Name	Opt.	Card.	Type	Table	Contents
1	Set ID - PID	R	1..1	SI		e.g. 1
2	Patient ID	B	0..*	CX		
2.1	ID number	R	1..1	ST		
2.2	check digit	O	0..	ST		
2.3	check digit scheme	O	0..	ID	HL70061	
2.4	assigning authority	B	..	HD	HL70363	
2.4.1	namespace ID	O	0..	IS	HL70300	
2.4.2	universal ID	C	0..	ST		
2.4.3	universal ID type	C	0..	ID	HL70301	
2.5	identifier type code	O	0..	ID	HL70203	
2.6	assigning facility	O	0..	HD		
2.6.1	namespace ID	O	0..	IS	HL70300	
2.6.2	universal ID	C	0..	ST		
2.6.3	universal ID type	C	0..	ID	HL70301	
2.7	effective date	O	0..	DT		
2.8	expiration date	O	0..	DT		
2.9	assigning jurisdiction	O	0..	CWE		
2.9.1	identifier	O	0..	ST		
2.9.2	text	O	0..	ST		
2.9.3	name of coding system	O	0..	ID	HL70396	
2.9.4	alternate identifier	O	0..	ST		
2.9.5	alternate text	O	0..	ST		
2.9.6	name of alternate coding system	O	0..	ID	HL70396	
2.9.7	coding system version ID	O	0..	ST		
2.9.8	alternate coding system version ID	O	0..	ST		
2.9.9	original text	O	0..	ST		
2.10	assigning agency or department	O	0..	CWE		
2.10.1	identifier	O	0..	ST		
2.10.2	text	O	0..	ST		
2.10.3	name of coding system	O	0..	ID	HL70396	
2.10.4	alternate identifier	O	0..	ST		
2.10.5	alternate text	O	0..	ST		
2.10.6	name of alternate coding system	O	0..	ID	HL70396	
2.10.7	coding system version ID	O	0..	ST		

Seq.	Name	Opt.	Card.	Type	Table	Contents
2.10.8	alternate coding system version ID	O	0..	ST		
2.10.9	original text	O	0..	ST		
3	Patient Identifier List	R	1..*	CX		
3.1	ID number	R	1..1	ST		e.g. 0001
3.2	check digit	O	0..	ST		
3.3	check digit scheme	O	0..	ID	HL70061	
3.4	assigning authority	B	..	HD	HL70363	
3.4.1	namespace ID	O	0..	IS	HL70300	e.g. IHELOCAL
3.4.2	universal ID	C	0..	ST		e.g. 1.3.6.1.4.1.21367.2010.1.2.310
3.4.3	universal ID type	C	0..	ID	HL70301	e.g. ISO
3.5	identifier type code	R	1..1	ID	HL70203	e.g. PI
3.9	assigning jurisdiction	O	0..	CWE		
3.9.1	identifier	O	0..	ST		
3.9.2	text	O	0..	ST		
3.9.3	name of coding system	O	0..	ID	HL70396	
3.9.4	alternate identifier	O	0..	ST		
3.9.5	alternate text	O	0..	ST		
3.9.6	name of alternate coding system	O	0..	ID	HL70396	
3.9.7	coding system version ID	O	0..	ST		
3.9.8	alternate coding system version ID	O	0..	ST		
3.9.9	original text	O	0..	ST		
3.10	assigning agency or department	O	0..	CWE		
3.10.1	identifier	O	0..	ST		
3.10.2	text	O	0..	ST		
3.10.3	name of coding system	O	0..	ID	HL70396	
3.10.4	alternate identifier	O	0..	ST		
3.10.5	alternate text	O	0..	ST		
3.10.6	name of alternate coding system	O	0..	ID	HL70396	
3.10.7	coding system version ID	O	0..	ST		
3.10.8	alternate coding system version ID	O	0..	ST		
3.10.9	original text	O	0..	ST		
4	Patient Identifier List	R	1..1	CX		
4.1	ID number	R	1..1	ST		e.g. 1001
4.2	check digit	O	0..	ST		
4.3	check digit scheme	O	0..	ID	HL70061	
4.4	assigning authority	B	..	HD	HL70363	
4.4.1	namespace ID	O	0..	IS	HL70300	e.g. IHENA

Seq.	Name	Opt.	Card.	Type	Table	Contents
4.4.2	universal ID	C	0..	ST		e.g. 1.3.6.1.4.1.21367.2010.1.2.300
4.4.3	universal ID type	C	0..	ID	HL70301	e.g. ISO
4.5	identifier type code	R	1..1	ID	HL70203	e.g. PI
4.9	assigning jurisdiction	O	0..	CWE		
4.9.1	identifier	O	0..	ST		
4.9.2	text	O	0..	ST		
4.9.3	name of coding system	O	0..	ID	HL70396	
4.9.4	alternate identifier	O	0..	ST		
4.9.5	alternate text	O	0..	ST		
4.9.6	name of alternate coding system	O	0..	ID	HL70396	
4.9.7	coding system version ID	O	0..	ST		
4.9.8	alternate coding system version ID	O	0..	ST		
4.9.9	original text	O	0..	ST		
4.10	assigning agency or department	O	0..	CWE		
4.10.1	identifier	O	0..	ST		
4.10.2	text	O	0..	ST		
4.10.3	name of coding system	O	0..	ID	HL70396	
4.10.4	alternate identifier	O	0..	ST		
4.10.5	alternate text	O	0..	ST		
4.10.6	name of alternate coding system	O	0..	ID	HL70396	
4.10.7	coding system version ID	O	0..	ST		
4.10.8	alternate coding system version ID	O	0..	ST		
4.10.9	original text	O	0..	ST		
5	Alternate Patient ID - PID	B	0..*	CX		
5.1	ID number	R	1..1	ST		
5.2	check digit	O	0..	ST		
5.3	check digit scheme	O	0..	ID	HL70061	
5.4	assigning authority	B	..	HD	HL70363	
5.4.1	namespace ID	O	0..	IS	HL70300	
5.4.2	universal ID	C	0..	ST		
5.4.3	universal ID type	C	0..	ID	HL70301	
5.5	identifier type code	O	0..	ID	HL70203	
5.6	assigning facility	O	0..	HD		
5.6.1	namespace ID	O	0..	IS	HL70300	
5.6.2	universal ID	C	0..	ST		
5.6.3	universal ID type	C	0..	ID	HL70301	
5.7	effective date	O	0..	DT		

Seq.	Name	Opt.	Card.	Type	Table	Contents
5.8	expiration date	O	0..	DT		
5.9	assigning jurisdiction	O	0..	CWE		
5.9.1	identifier	O	0..	ST		
5.9.2	text	O	0..	ST		
5.9.3	name of coding system	O	0..	ID	HL70396	
5.9.4	alternate identifier	O	0..	ST		
5.9.5	alternate text	O	0..	ST		
5.9.6	name of alternate coding system	O	0..	ID	HL70396	
5.9.7	coding system version ID	O	0..	ST		
5.9.8	alternate coding system version ID	O	0..	ST		
5.9.9	original text	O	0..	ST		
5.10	assigning agency or department	O	0..	CWE		
5.10.1	identifier	O	0..	ST		
5.10.2	text	O	0..	ST		
5.10.3	name of coding system	O	0..	ID	HL70396	
5.10.4	alternate identifier	O	0..	ST		
5.10.5	alternate text	O	0..	ST		
5.10.6	name of alternate coding system	O	0..	ID	HL70396	
5.10.7	coding system version ID	O	0..	ST		
5.10.8	alternate coding system version ID	O	0..	ST		
5.10.9	original text	O	0..	ST		
6	Patient Name	R	1..*	XPN		
6.1	family name	R	1..1	FN		
6.1.1	surname	R	1..1	ST		e.g. ANDERSON
6.1.2	own surname prefix	O	0..	ST		
6.1.3	own surname	O	0..	ST		
6.1.4	surname prefix from partner/spouse	O	0..	ST		
6.1.5	surname from partner/spouse	O	0..	ST		
6.2	given name	R	1..1	ST		e.g. LAURA
6.3	second and further given names or initials thereof	O	0..	ST		
6.4	suffix (e.g., JR or III)	O	0..	ST		
6.5	prefix (e.g., DR)	O	0..	ST		
6.6	degree (e.g., MD)	B	..	IS	HL70360	
6.7	name type code	O	0..	ID	HL70200	
6.8	name representation code	O	0..	ID	HL70465	
6.9	name context	O	0..	CE	HL70448	

Seq.	Name	Opt.	Card.	Type	Table	Contents
6.9.1	identifier	O	0..	ST		
6.9.2	text	O	0..	ST		
6.9.3	name of coding system	O	0..	ID	HL70396	
6.9.4	alternate identifier	O	0..	ST		
6.9.5	alternate text	O	0..	ST		
6.9.6	name of alternate coding system	O	0..	ID	HL70396	
6.10	name validity range	B	..	DR		
6.10.1	range start date/time	O	0..	TS		
6.10.2	range end date/time	O	0..	TS		
6.11	name assembly order	O	0..	ID	HL70444	
6.12	effective date	O	0..	TS		
6.12.1	time	R	1..1	DTM		e.g. 20040328134623.1234+0300
6.12.2	degree of precision	B	..	ST	HL70529	e.g. D
6.13	expiration date	O	0..	TS		
6.13.1	time	R	1..1	DTM		e.g. 20040328134623.1234+0300
6.13.2	degree of precision	B	..	ST	HL70529	e.g. D
6.14	professional suffix	O	0..	ST		
7	Mother_s Maiden Name	O	0..*	XPN		
7.1	family name	O	0..	FN		
7.1.1	surname	R	1..1	ST		
7.1.2	own surname prefix	O	0..	ST		
7.1.3	own surname	O	0..	ST		
7.1.4	surname prefix from partner/spouse	O	0..	ST		
7.1.5	surname from partner/spouse	O	0..	ST		
7.2	given name	O	0..	ST		
7.3	second and further given names or initials thereof	O	0..	ST		
7.4	suffix (e.g., JR or III)	O	0..	ST		
7.5	prefix (e.g., DR)	O	0..	ST		
7.6	degree (e.g., MD)	B	..	IS	HL70360	
7.7	name type code	O	0..	ID	HL70200	
7.8	name representation code	O	0..	ID	HL70465	
7.9	name context	O	0..	CE	HL70448	
7.9.1	identifier	O	0..	ST		
7.9.2	text	O	0..	ST		
7.9.3	name of coding system	O	0..	ID	HL70396	
7.9.4	alternate identifier	O	0..	ST		

Seq.	Name	Opt.	Card.	Type	Table	Contents
7.9.5	alternate text	O	0..	ST		
7.9.6	name of alternate coding system	O	0..	ID	HL70396	
7.10	name validity range	B	..	DR		
7.10.1	range start date/time	O	0..	TS		
7.10.2	range end date/time	O	0..	TS		
7.11	name assembly order	O	0..	ID	HL70444	
7.12	effective date	O	0..	TS		
7.12.1	time	R	1..1	DTM		e.g. 20040328134623.1234+0300
7.12.2	degree of precision	B	..	ST	HL70529	e.g. D
7.13	expiration date	O	0..	TS		
7.13.1	time	R	1..1	DTM		e.g. 20040328134623.1234+0300
7.13.2	degree of precision	B	..	ST	HL70529	e.g. D
7.14	professional suffix	O	0..	ST		
8	Date/Time of Birth	R	1..1	TS		
8.1	time	R	1..1	DTM		e.g. 19500101
8.2	degree of precision	B	..	ST	HL70529	e.g. D
9	Administrative Sex	R	1..1	IS	HL70001	e.g. U
10	Patient Alias	B	0..*	XPN		
10.1	family name	O	0..	FN		
10.1.1	surname	R	1..1	ST		
10.1.2	own surname prefix	O	0..	ST		
10.1.3	own surname	O	0..	ST		
10.1.4	surname prefix from partner/spouse	O	0..	ST		
10.1.5	surname from partner/spouse	O	0..	ST		
10.2	given name	O	0..	ST		
10.3	second and further given names or initials thereof	O	0..	ST		
10.4	suffix (e.g., JR or III)	O	0..	ST		
10.5	prefix (e.g., DR)	O	0..	ST		
10.6	degree (e.g., MD)	B	..	IS	HL70360	
10.7	name type code	O	0..	ID	HL70200	
10.8	name representation code	O	0..	ID	HL70465	
10.9	name context	O	0..	CE	HL70448	
10.9.1	identifier	O	0..	ST		
10.9.2	text	O	0..	ST		
10.9.3	name of coding system	O	0..	ID	HL70396	
10.9.4	alternate identifier	O	0..	ST		

Seq.	Name	Opt.	Card.	Type	Table	Contents
10.9.5	alternate text	O	0..	ST		
10.9.6	name of alternate coding system	O	0..	ID	HL70396	
10.10	name validity range	B	..	DR		
10.10.1	range start date/time	O	0..	TS		
10.10.2	range end date/time	O	0..	TS		
10.11	name assembly order	O	0..	ID	HL70444	
10.12	effective date	O	0..	TS		
10.12.1	time	R	1..1	DTM		e.g. 20040328134623.1234+0300
10.12.2	degree of precision	B	..	ST	HL70529	e.g. D
10.13	expiration date	O	0..	TS		
10.13.1	time	R	1..1	DTM		e.g. 20040328134623.1234+0300
10.13.2	degree of precision	B	..	ST	HL70529	e.g. D
10.14	professional suffix	O	0..	ST		
11	Race	O	0..*	CE	HL70005	
11.1	identifier	O	0..	ST		
11.2	text	O	0..	ST		
11.3	name of coding system	O	0..	ID	HL70396	
11.4	alternate identifier	O	0..	ST		
11.5	alternate text	O	0..	ST		
11.6	name of alternate coding system	O	0..	ID	HL70396	
12	Patient Address	R	1..*	XAD		
12.1	street address	O	0..	SAD		
12.1.1	street or mailing address	O	0..	ST		e.g. 19 Street
12.1.2	street name	O	0..	ST		
12.1.3	dwelling number	O	0..	ST		
12.2	other designation	O	0..	ST		
12.3	city	O	0..	ST		e.g. Anytown
12.4	state or province	O	0..	ST		e.g. Anystate
12.5	zip or postal code	O	0..	ST		e.g. 12345
12.6	country	O	0..	ID	HL70399	e.g. US
12.7	address type	O	0..	ID	HL70190	
12.8	other geographic designation	O	0..	ST		
12.9	county/parish code	O	0..	IS	HL70289	
12.10	census tract	O	0..	IS	HL70288	
12.11	address representation code	O	0..	ID	HL70465	
12.12	address validity range	B	..	DR		
12.12.1	range start date/time	O	0..	TS		

Seq.	Name	Opt.	Card.	Type	Table	Contents
12.12.2	range end date/time	O	0..	TS		
12.13	effective date	O	0..	TS		
12.13.1	time	R	1..1	DTM		e.g. 20040328134623.1234+0300
12.13.2	degree of precision	B	..	ST	HL70529	e.g. D
12.14	expiration date	O	0..	TS		
12.14.1	time	R	1..1	DTM		e.g. 20040328134623.1234+0300
12.14.2	degree of precision	B	..	ST	HL70529	e.g. D
13	County Code	B	0..*	IS	HL70289	
14	Phone Number - Home	O	0..*	XTN		
14.1	telephone number	B	..	ST		
14.2	telecommunication use code	O	0..	ID	HL70201	
14.3	telecommunication equipment type	O	0..	ID	HL70202	
14.4	email address	O	0..	ST		
14.5	country code	O	0..	NM		
14.6	area/city code	O	0..	NM		
14.7	local number	O	0..	NM		
14.8	extension	O	0..	NM		
14.9	any text	O	0..	ST		
14.10	extension prefix	O	0..	ST		
14.11	speed dial code	O	0..	ST		
14.12	unformatted telephone number	C	0..	ST		
15	Phone Number - Business	O	0..*	XTN		
15.1	telephone number	B	..	ST		
15.2	telecommunication use code	O	0..	ID	HL70201	
15.3	telecommunication equipment type	O	0..	ID	HL70202	
15.4	email address	O	0..	ST		
15.5	country code	O	0..	NM		
15.6	area/city code	O	0..	NM		
15.7	local number	O	0..	NM		
15.8	extension	O	0..	NM		
15.9	any text	O	0..	ST		
15.10	extension prefix	O	0..	ST		
15.11	speed dial code	O	0..	ST		
15.12	unformatted telephone number	C	0..	ST		
16	Primary Language	O	0..1	CE	HL70296	
16.1	identifier	O	0..	ST		
16.2	text	O	0..	ST		

Seq.	Name	Opt.	Card.	Type	Table	Contents
16.3	name of coding system	O	0..	ID	HL70396	
16.4	alternate identifier	O	0..	ST		
16.5	alternate text	O	0..	ST		
16.6	name of alternate coding system	O	0..	ID	HL70396	
17	Marital Status	O	0..1	CE	HL70002	
17.1	identifier	O	0..	ST		
17.2	text	O	0..	ST		
17.3	name of coding system	O	0..	ID	HL70396	
17.4	alternate identifier	O	0..	ST		
17.5	alternate text	O	0..	ST		
17.6	name of alternate coding system	O	0..	ID	HL70396	
18	Religion	O	0..1	CE	HL70006	
18.1	identifier	O	0..	ST		
18.2	text	O	0..	ST		
18.3	name of coding system	O	0..	ID	HL70396	
18.4	alternate identifier	O	0..	ST		
18.5	alternate text	O	0..	ST		
18.6	name of alternate coding system	O	0..	ID	HL70396	
19	Patient Account Number	O	0..1	CX		
19.1	ID number	R	1..1	ST		
19.2	check digit	O	0..	ST		
19.3	check digit scheme	O	0..	ID	HL70061	
19.4	assigning authority	B	..	HD	HL70363	
19.4.1	namespace ID	O	0..	IS	HL70300	
19.4.2	universal ID	C	0..	ST		
19.4.3	universal ID type	C	0..	ID	HL70301	
19.5	identifier type code	O	0..	ID	HL70203	
19.6	assigning facility	O	0..	HD		
19.6.1	namespace ID	O	0..	IS	HL70300	
19.6.2	universal ID	C	0..	ST		
19.6.3	universal ID type	C	0..	ID	HL70301	
19.7	effective date	O	0..	DT		
19.8	expiration date	O	0..	DT		
19.9	assigning jurisdiction	O	0..	CWE		
19.9.1	identifier	O	0..	ST		
19.9.2	text	O	0..	ST		
19.9.3	name of coding system	O	0..	ID	HL70396	

Seq.	Name	Opt.	Card.	Type	Table	Contents
19.9.4	alternate identifier	O	0..	ST		
19.9.5	alternate text	O	0..	ST		
19.9.6	name of alternate coding system	O	0..	ID	HL70396	
19.9.7	coding system version ID	O	0..	ST		
19.9.8	alternate coding system version ID	O	0..	ST		
19.9.9	original text	O	0..	ST		
19.10	assigning agency or department	O	0..	CWE		
19.10.1	identifier	O	0..	ST		
19.10.2	text	O	0..	ST		
19.10.3	name of coding system	O	0..	ID	HL70396	
19.10.4	alternate identifier	O	0..	ST		
19.10.5	alternate text	O	0..	ST		
19.10.6	name of alternate coding system	O	0..	ID	HL70396	
19.10.7	coding system version ID	O	0..	ST		
19.10.8	alternate coding system version ID	O	0..	ST		
19.10.9	original text	O	0..	ST		
20	SSN Number - Patient	B	0..*	ST		
21	Driver's License Number - Patient	B	0..*	DLN		
21.1	driver's license number	R	1..1	ST		
21.2	issuing state, province, country	O	0..	IS	HL70333	
21.3	expiration date	O	0..	DT		
22	Mother's Identifier	O	0..*	CX		
22.1	ID number	R	1..1	ST		
22.2	check digit	O	0..	ST		
22.3	check digit scheme	O	0..	ID	HL70061	
22.4	assigning authority	B	..	HD	HL70363	
22.4.1	namespace ID	O	0..	IS	HL70300	
22.4.2	universal ID	C	0..	ST		
22.4.3	universal ID type	C	0..	ID	HL70301	
22.5	identifier type code	O	0..	ID	HL70203	
22.6	assigning facility	O	0..	HD		
22.6.1	namespace ID	O	0..	IS	HL70300	
22.6.2	universal ID	C	0..	ST		
22.6.3	universal ID type	C	0..	ID	HL70301	
22.7	effective date	O	0..	DT		
22.8	expiration date	O	0..	DT		
22.9	assigning jurisdiction	O	0..	CWE		

Seq.	Name	Opt.	Card.	Type	Table	Contents
22.9.1	identifier	O	0..	ST		
22.9.2	text	O	0..	ST		
22.9.3	name of coding system	O	0..	ID	HL70396	
22.9.4	alternate identifier	O	0..	ST		
22.9.5	alternate text	O	0..	ST		
22.9.6	name of alternate coding system	O	0..	ID	HL70396	
22.9.7	coding system version ID	O	0..	ST		
22.9.8	alternate coding system version ID	O	0..	ST		
22.9.9	original text	O	0..	ST		
22.10	assigning agency or department	O	0..	CWE		
22.10.1	identifier	O	0..	ST		
22.10.2	text	O	0..	ST		
22.10.3	name of coding system	O	0..	ID	HL70396	
22.10.4	alternate identifier	O	0..	ST		
22.10.5	alternate text	O	0..	ST		
22.10.6	name of alternate coding system	O	0..	ID	HL70396	
22.10.7	coding system version ID	O	0..	ST		
22.10.8	alternate coding system version ID	O	0..	ST		
22.10.9	original text	O	0..	ST		
23	Ethnic Group	O	0..*	CE	HL70189	
23.1	identifier	O	0..	ST		
23.2	text	O	0..	ST		
23.3	name of coding system	O	0..	ID	HL70396	
23.4	alternate identifier	O	0..	ST		
23.5	alternate text	O	0..	ST		
23.6	name of alternate coding system	O	0..	ID	HL70396	
24	Birth Place	O	0..1	ST		
25	Multiple Birth Indicator	O	0..1	ID	HL70136	
26	Birth Order	O	0..1	NM		
27	Citizenship	O	0..*	CE	HL70171	
27.1	identifier	O	0..	ST		
27.2	text	O	0..	ST		
27.3	name of coding system	O	0..	ID	HL70396	
27.4	alternate identifier	O	0..	ST		
27.5	alternate text	O	0..	ST		
27.6	name of alternate coding system	O	0..	ID	HL70396	
28	Veterans Military Status	O	0..1	CE	HL70172	

Seq.	Name	Opt.	Card.	Type	Table	Contents
28.1	identifier	O	0..	ST		
28.2	text	O	0..	ST		
28.3	name of coding system	O	0..	ID	HL70396	
28.4	alternate identifier	O	0..	ST		
28.5	alternate text	O	0..	ST		
28.6	name of alternate coding system	O	0..	ID	HL70396	
29	Nationality	B	0..*	CE	HL70212	
29.1	identifier	O	0..	ST		
29.2	text	O	0..	ST		
29.3	name of coding system	O	0..	ID	HL70396	
29.4	alternate identifier	O	0..	ST		
29.5	alternate text	O	0..	ST		
29.6	name of alternate coding system	O	0..	ID	HL70396	
30	Patient Death Date and Time	O	0..1	TS		
30.1	time	R	1..1	DTM		e.g. 20040328134623.1234+0300
30.2	degree of precision	B	..	ST	HL70529	e.g. D
31	Patient Death Indicator	O	0..1	ID	HL70136	
32	Identity Unknown Indicator	O	0..1	ID	HL70136	
33	Identity Reliability Code	O	0..*	IS	HL70445	
34	Last Update Date/Time	O	0..1	TS		
34.1	time	R	1..1	DTM		e.g. 20040328134623.1234+0300
34.2	degree of precision	B	..	ST	HL70529	e.g. D
35	Last Update Facility	O	0..1	HD		
35.1	namespace ID	O	0..	IS	HL70300	
35.2	universal ID	C	0..	ST		
35.3	universal ID type	C	0..	ID	HL70301	
36	Species Code	C	0..1	CE	HL70446	
36.1	identifier	O	0..	ST		
36.2	text	O	0..	ST		
36.3	name of coding system	O	0..	ID	HL70396	
36.4	alternate identifier	O	0..	ST		
36.5	alternate text	O	0..	ST		
36.6	name of alternate coding system	O	0..	ID	HL70396	
37	Breed Code	C	0..1	CE	HL70447	
37.1	identifier	O	0..	ST		
37.2	text	O	0..	ST		
37.3	name of coding system	O	0..	ID	HL70396	

Seq.	Name	Opt.	Card.	Type	Table	Contents
37.4	alternate identifier	O	0..	ST		
37.5	alternate text	O	0..	ST		
37.6	name of alternate coding system	O	0..	ID	HL70396	
38	Strain	O	0..1	ST		
39	Production Class Code	O	0..1	CE	HL70429	
39.1	identifier	O	0..	ST		
39.2	text	O	0..	ST		
39.3	name of coding system	O	0..	ID	HL70396	
39.4	alternate identifier	O	0..	ST		
39.5	alternate text	O	0..	ST		
39.6	name of alternate coding system	O	0..	ID	HL70396	
40	Tribal Citizenship	O	0..*	CWE	HL70171	
40.1	identifier	O	0..	ST		
40.2	text	O	0..	ST		
40.3	name of coding system	O	0..	ID	HL70396	
40.4	alternate identifier	O	0..	ST		
40.5	alternate text	O	0..	ST		
40.6	name of alternate coding system	O	0..	ID	HL70396	
40.7	coding system version ID	O	0..	ST		
40.8	alternate coding system version ID	O	0..	ST		
40.9	original text	O	0..	ST		

1. Set ID - PID

2. Patient ID

2.4.2. universal ID

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

2.4.3. universal ID type

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both

be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

2.6.2. universal ID

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

2.6.3. universal ID type

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

3. Patient Identifier List

3.4.2. universal ID

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

3.4.3. universal ID type

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity

identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

4. Patient Identifier List

4.4.2. universal ID

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

4.4.3. universal ID type

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

5. Alternate Patient ID - PID

5.4.2. universal ID

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

5.4.3. universal ID type

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both

be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

5.6.2. universal ID

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

5.6.3. universal ID type

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

6. Patient Name

6.12.2. degree of precision

Retained for backward compatibility only

6.13.2. degree of precision

Retained for backward compatibility only

7. Mother_s Maiden Name

7.12.2. degree of precision

Retained for backward compatibility only

7.13.2. degree of precision

Retained for backward compatibility only

8. Date/Time of Birth

8.2. degree of precision

Retained for backward compatibility only

9. Administrative Sex

10. Patient Alias

10.12.2. degree of precision

Retained for backward compatibility only

10.13.2. degree of precision

Retained for backward compatibility only

11. Race

12. Patient Address

12.12. address validity range

deprecated as of v2.5

12.13.2. degree of precision

Retained for backward compatibility only

12.14.2. degree of precision

Retained for backward compatibility only

13. County Code

14. Phone Number - Home

14.1. telephone number

Format: [NNN] [(999)]999-9999 [X99999] [B99999] [C any text]

14.12. unformatted telephone number

Condition Predicate:

An expression of the telephone number as an unparsable string

15. Phone Number - Business

15.1. telephone number

Format: [NNN] [(999)]999-9999 [X99999] [B99999] [C any text]

15.12. unformatted telephone number

Condition Predicate:

An expression of the telephone number as an unparsable string

16. Primary Language**17. Marital Status****18. Religion****19. Patient Account Number****19.4.2. universal ID***Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

19.4.3. universal ID type*Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

19.6.2. universal ID*Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

19.6.3. universal ID type*Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity

identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

20. SSN Number - Patient

21. Driver's License Number - Patient

22. Mother's Identifier

22.4.2. universal ID

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

22.4.3. universal ID type

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

22.6.2. universal ID

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

22.6.3. universal ID type*Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

23. Ethnic Group**24. Birth Place****25. Multiple Birth Indicator****26. Birth Order****27. Citizenship****28. Veterans Military Status****29. Nationality****30. Patient Death Date and Time****30.2. degree of precision**

Retained for backward compatibility only

31. Patient Death Indicator**32. Identity Unknown Indicator****33. Identity Reliability Code****34. Last Update Date/Time****34.2. degree of precision**

Retained for backward compatibility only

35. Last Update Facility**35.2. universal ID***Condition Predicate:*

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity

identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

35.3. universal ID type

Condition Predicate:

If the first component for the HD data type is present, the second and third components are optional. If the third component is present, then the second must also be present (although in this case the first is optional). The second and third components must either both be valued (both non-null), or both be not valued (both null). This means that if all three components of the HD are valued, the entity identified by the first component is the same as the entity identified by components two and three taken together. However, implementers may choose, by site agreement, to specify that if all three components of the HD are valued, the first component defines a member in the set defined by the second and third components.

36. Species Code

37. Breed Code

38. Strain

39. Production Class Code

40. Tribal Citizenship