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NCATS Database Requirements

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Document Revision History

Date	Responsible	Revision(s)	Doc. Version
06/19/07	K. Baldwin, DPS R&T	Initial draft for review by TRCC	1.0
07/11/07	K. Baldwin, DPS R&T	<ul style="list-style-type: none"> • Extent of Damage (V-84): PDO = Y • At Fault (V-2): PDO = Y • Property Damage (S-66 – S-74): PDO = Y • Scene Diagram (S-79): PDO = N • Photos Taken (S-78): PDO = N • NRS/CFR/CC/MC/Pending (V-88): PDO = Y • Violation (V-89): PDO = Y • NOC (V-90): PDO = Y • Added Traffic Control Device Other (V-113) 	1.1
08/09/07	K. Baldwin, DPS R&T	<ul style="list-style-type: none"> • Added XML tag, enumeration and default value information • Removed Agency Name from Mandatory Field Summary • Removed City Name OR County Name from Mandatory Field Summary • Combined DL (V-21) and CDL (V-22) fields into Driver License Type (V-21) • County (S-13) not stored in NCATS crash record • Added Cargo Body Type (V-114) • Added Suffix Name (V-115) to Vehicle Information Form • Added Suffix Name (N-72) to Non-Motorist Information form • Added Sequence of Event (N-73) to Non-Motorist Information form • Added Most Harmful Event (N-74) to Non-Motorist Information form • Urban/Rural (S-4): Required = N • Damaged Areas (V-76): Required = N • Vehicle Factors (V-72): Required = N • Investigation Complete (S-77): Required = N • Photos Taken (S-78): Required = N • Scene Diagram (S-79): Required = N • Statements (S-80): Required = N • Date Notified (S-82): Required = N • Vehicle Style (V-48) – removed '2T-Hardtop, 2 door' • Vehicle Style (V-48) – removed '4T-Hardtop, 4 door' • Vehicle Style (V-48) – removed 'AC-Auto Carrier' • Vehicle Style (V-48) – removed 'BT-Boat' • Vehicle Style (V-48) – removed 'CT-Travel' • Vehicle Style (V-48) – removed 'HE-Horse' • Vehicle Style (V-48) – removed 'LP-Pole' • Vehicle Style (V-48) – removed 'MT-Motorcycle Trailer' • Vehicle Style (V-48) – removed 'ST-Stake or Rack' • Vehicle Style (V-48) – removed 'TD-Tow Dolly' • Vehicle Style (V-48) – removed 'TE-Tent Trailer' • Vehicle Style (V-48) – removed 'UT-Utility' • Vehicle Style (V-48) – added 'AM-Ambulance' • Vehicle Style (V-48) – added 'MV-Multi-wheel/ATV' • Non-Motor Vehicle Action (N-75): Added to Non-Motorist Information form • Injury Severity (V-34, N-27): Added default XML value [O] to support PDO crash records 	2.0
08/13/07	K. Baldwin, DPS R&T	<ul style="list-style-type: none"> • Photos Taken (S-78): Corrected PDO errors in document body • Scene Diagram (S-79): Corrected PDO errors in document body • Ejected (V-38): Added 'Not Reported' [4] • Trapped (V-39): Added 'Not Reported' [3] 	2.1
09/10/07	K. Baldwin, DPS R&T	<ul style="list-style-type: none"> • Accident Number (S-1): Added 0-9 as valid characters • Event Number (S-3): Added 0-9 as valid characters • Enclosed single characters in 'Valid Chars' column in brackets [] to make them easier to see 	2.2

Date	Responsible	Revision(s)	Doc. Version
09/20/07	K. Baldwin, DPS R&T	<ul style="list-style-type: none"> • Restrictions (V-25) – Added 'Instruction Permit' [15] • Highway Description (S-54) – Added [6] as NCATS code for off-road • Vehicle Style (V-48) – added 'ST-Stake or Rack' (was previously removed) • OLN State (V-20) – Added 'Other country/territory not listed' [YY] 	2.3
01/30/08	K. Baldwin, DPS R&T	<ul style="list-style-type: none"> • Accident Number (S-1) – Removed hyphen as valid character • Collision Time (S-10) – Changed format to HHMM from HH:MM • Time Notified (S-10) – Changed format to HHMM from HH:MM • Arrival Time (S-85) – Changed format to HHMM from HH:MM • Added Activity Code (S-91) • Added derived/static XML elements (D-1 – D-10) 	2.4
03/13/08	K. Baldwin, DPS R&T	<ul style="list-style-type: none"> • RO Last Name (V-55) – Increased length from 30 to 50 characters • RO First Name (V-56) – Increased length from 20 to 50 characters • RO Middle Name (V-57) – Increased length from 20 to 50 characters 	2.5
03/31/08	K. Baldwin, DPS R&T	<ul style="list-style-type: none"> • Added NCATS_CRASH_ID (D-11) • Added ORIG_ACCIDENT_NUM (D-12) 	2.6
05/21/08	K. Baldwin, DPS R&T	<ul style="list-style-type: none"> • Added Driver License Class (V-116) • Agency Code (D-2) – Added Clark County School District PD [CLPD] • Agency Code (D-2) – Added Washoe County School District PD [WASD] • Agency Code (D-2) – Added Pyramid Lake Tribal PD [PDTP] • Agency Code (D-2) – Added Truckee Meadows Community College [TMCC] • Agency Code (D-2) – Added Yerington Paiute Tribal PD [YETP] • Changed ORIG_ACCIDENT_NUM to AGENCY_ACCIDENT_NUM (D-12) • Added [N] as default value for Emergency Use (S-5) 	2.7

Introduction

The purpose of this document is to define core database-level requirements for the Nevada Citation and Accident Tracking System (NCATS) repository hosted by the Nevada Department of Public Safety. The requirements set forth in this document establish the minimum data validations enforced by the NCATS database. A collision report record that meets the requirements contained within this document will be accepted into the database.

This document focuses on database-level requirements only. It does not incorporate logical requirements (e.g. two drivers in one vehicle).

This document is based on the current State of Nevada Form 5 Collision Report Form (rev. 01/14/04). This document, therefore, is a “living” document. As collision reporting standards and the Form 5 evolve over time, this document will be updated accordingly.

The database rules set forth in this document will serve as the foundation for software requirements used by system vendors charged with developing and maintaining applications that collect and transmit collision report data to the State NCATS database.

Intended Audience

The intended audience of this document includes three primary groups.

1. Law Enforcement Officers and Supervisors – The primary collectors of collision report data.
2. NCATS Data Users – The community of users that access and utilize data stored in the NCATS repository.
3. System and Vendor Technical Staff – Staff that develops, maintains and supports data collection, transmission and reporting systems.

Four Types of Database-Level Requirements

At the database level, there are four types of requirements that every field on a collision report record must meet before it will be accepted into the NCATS database.

1. **Mandatory Fields** – A field that is defined as mandatory (or required) means that an entry must be made in the field before a collision record is accepted into the NCATS database. *If a field defined as mandatory is not contained in a crash record, the crash record will be rejected.*
2. **Field Lengths** – Every database, including NCATS, must impose realistic limitations on how much data can be stored in a given field. This is necessary to ensure that database storage is maintained as efficiently as possible. For example, it makes no sense to allow a ZIP Code length of 255 characters when the U.S. standard is 11 characters. As a result, all fields that accept text entry have a set limit on the maximum number of characters that can be entered. *If a field value is longer than the allowed NCATS value, the crash record will be rejected.*
3. **Data Types** – There are three basic types of data that can be stored in the NCATS database – text, numeric and date/time. It is critical that data entered meets the type requirement for a given field. For example, if a field is defined to support a date data type, only valid date values can be stored in the field. Similarly, an alphabetic value cannot be stored in a numeric-only field, e.g. the value 1 must be stored instead of 'one.' *If data entered in a field does not match the allowed NCATS data type, the crash record will be rejected.*
4. **Codified Field Values** – To provide the most meaningful data possible to the NCATS user community, several fields are “codified.” This means that, in addition to the requirements above, only a specific set of values are allowed in a given field. For example, a person’s sex can be only one of three values – female (F), male (M) or unknown (U). Any value other than F, M or U is considered invalid and will prevent a record from being stored in the NCATS database. *Any record containing a value that does not match the valid NCATS codes for the field will be rejected.*

Collision Record Requirements

Mandatory Field Summary

The following Form 5 fields are considered mandatory for every crash record. If one or more of the values listed below are omitted from a collision report, the crash record will not be inserted into the NCATS database.

Scene Information Form

1. Accident Number
2. Crash Severity (Property, Injury, Fatal)
3. Collision Date
4. Collision Time
5. # of Vehicles
6. # of Non-Motorists
7. # of Occupants
8. # of Fatalities
9. # Injured
10. # Restrained
11. Collision Occurred On (Primary Roadway)
12. Weather Conditions
13. Vehicle Collision Type
14. Investigator
15. Investigator ID

Vehicle Information Form

1. Vehicle Number
2. Vehicle Action
3. Occupant Number
4. Injury Severity

Non-Motorist Information Form

1. Non-Motorist Number
2. Non-Motorist Type
3. Person Type
4. Injury Severity

NCATS Database Rules

The tables below identify NCATS database-level rules for every data element on the State of Nevada Form 5 Collision Report Form. Each table represents one of the three major Form 5 report forms – Scene Information, Vehicle Information and Non-Motorist Information. The tables are organized as follows:

Column Heading	Description
ID	Uniquely identifies each data element within this document for reference purposes
Field Name	Name of the field and/or data element as it appears on the Form 5
Required	'Y' = an entry in the corresponding NCATS database field is required 'N' = an entry in the corresponding NCATS database field is not required
PDO	'Y' = the data element is captured on the PDO collision report form 'N' = the data element is not captured on the PDO collision report form
Max. Length	The maximum number of characters allowed in the field
Valid Chars.	Character types allowed in a given field: A – Z = alphabetic characters A through Z 0 – 9 = numeric characters 0 through 9 Space = space character [.] = decimal point character [-] = dash character All = all printable characters, including the space character and special characters
Notes	Any special notes with respect to the field, including codified values accepted by the NCATS database. The valid code for a given attribute is noted within brackets; it is the value that must be populated within the XML tag.
NCATS XML Tag / Enumeration	This is the XML tag that will be populated for a given report field. If a codified field incorporates an enumerated value, the enumeration name is listed as well.
Default XML Value	Several XML values are defaulted in an XML record. If a given XML tag uses a default value, the value is listed. If "N/A" is listed in this column, no default value is used.

Scene Information Form

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
S-1	Accident Number	Y	Y	20	A – Z 0 – 9		<ACCIDENT_NUM>	N/A
S-2	Crash Severity	Y	Y			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none">• Property [1]• Injury [2]• Fatal [3]	<CRASH_SEVERITY> enumCRASEV	N/A
S-3	Event Number	N	Y	25	A – Z 0 – 9 [-]		<EVENT_NUM>	
S-4	Urban / Rural	N	Y			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none">• Urban [U]• Rural [R]	<URBAN_RURAL> enumURRL	[N]
S-5	Emergency Use	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none">• Yes [Y]• No [N]	<EMERGENCY_USE> enumLOGICAL	[N]
S-6	Office Report	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none">• Yes [Y]• No [N]	<REPT_MADE_AT_SCENE> enumLOGICAL	[N]
S-7	Hit and Run	N	Y			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none">• Yes [Y]• No [N]	<REPT_HIT_RUN> enumLOGICAL	[N]
S-8	Private Property	N	Y			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none">• Yes [Y]• No [N]	<PRIVATE_PROPERTY> enumLOGICAL	[N]

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
S-9	Collision Date	Y	Y			Must be a valid date value	<CRASH_DATE>	
S-10	Collision Time	Y	Y			Must be a valid 24-hour (military) time (HHMM)	<CRASH_TIME>	
S-11	Beat/Sector	N	Y	20	All		<BEAT_SECTOR>	
S-12	City	N	Y			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Yes [Y] • No [N] 	<CITY_TOWN_IND>	[N]
S-13	County	N	Y			Not stored in NCATS crash record		
S-14	City Name	N	Y			Required if County Name is empty Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Alamo [ALA] • Amargosa Valley [AMV] • Austin [AUS] • Baker [BAK] • Battle Mountain [BAT] • Beatty [BEA] • Beowawe [BOE] • Blue Diamond [BLU] • Boulder City [BOU] • Bunkerville [BUN] • Caliente [CAL] • Carlin [CLN] • Carson City [CAR] • Coaldale [COA] • Cottonwood Cove [COT] • Crescent Valley [CRE] • Crystal Bay [CRY] • Currant [CUR] • Dayton [DAY] • Denio [DEN] • Duckwater [DUC] • Dyer [DYE] • Elko [ELK] • Ely [ELY] • Empire [EMP] • Enterprise [ENT] • Eureka [EUR] 	<CRASH_CITY> enumNVCTY	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
						<ul style="list-style-type: none"> • Fallon [FAL] • Fernley [FER] • Gabbs [GAB] • Gardnerville [GAR] • Genoa [GEN] • Gerlach [GER] • Golconda [GOL] • Goldfield [GLD] • Goodsprings [GOO] • Hawthorne [HAW] • Henderson [HEN] • Imlay [IML] • Incline Village [INC] • Indian Springs [IND] • Jackpot [JAC] • Jarbidge [JAR] • Jean [JEA] • Jiggs [JIG] • Lamoille [LAM] • Las Vegas [LAS] • Laughlin [LAU] • Lemmon Valley [LEM] • Logandale [LOG] • Lovelock [LOV] • Lund [LUN] • Manhattan [MAN] • McDermitt [MCD] • McGill [MCG] • Mesquite [MES] • Mill City [MIL] • Mina [MNA] • Minden [MIN] • Moapa [MOA] • Montello [MON] • Mountain City [MOU] • Nixon [NIX] • North Las Vegas [NLV] • Orovada [ORO] • Other [OTH] • Overton [OVR] • Owyhee [OWY] • Pahrump [PAH] • Panaca [PAN] 		

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
						<ul style="list-style-type: none"> • Paradise Valley [PAR] • Pioche [PIO] • Rachel [RAC] • Reno [RNO] • Round Mountain [RMO] • Ruby Valley [RUB] • Sandy Valley [SAN] • Schurz [SCH] • Searchlight [SEA] • Silver Springs [SIL] • Smith [SMI] • Sparks [SPA] • Stateline [STA] • Sun Valley [SUN] • The Lakes [THE] • Tonopah [TON] • Tuscarora [TUS] • Unionville [UNI] • Verdi [VER] • Virginia City [VIR] • Wadsworth [WAD] • Washoe Valley [WAS] • Wellington [WEL] • Wells [WLS] • Wendover [WEN] • West Wendover [WES] • Winchester [WNC] • Winnemucca [WIN] • Yerington [YER] • Zephyr Cove [ZEP] 		

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
S-15	County Name	N	Y			Required if City Name is empty Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • CARSON CITY [CC] • CHURCHILL [CH] • CLARK [CL] • DOUGLAS [DO] • ELKO [EL] • EUREKA [EU] • ESMERELDA [ES] • HUMBOLDT [HU] • LANDER [LA] • LINCOLN [LN] • LYON [LY] • MINERAL [MI] • NYE [NY] • PERSHING [PE] • STOREY [ST] • WASHOE [WA] • WHITE PINE [WP] 	<CRASH_CNTY> enumCOU	N/A
S-16	Mile Marker	N	Y	5	0 – 9 [.]		<MILE_MARKER>	N/A
S-17	# of Vehicles	Y	N		0 – 9		<NUM_VEHICLES>	[0]
S-18	# of Non-Motorists	Y	N		0 – 9		<NUM_NONMOTORIST>	[0]
S-19	# of Occupants	Y	N		0 – 9		<NUM_OCCUPANTS>	[0]
S-20	# of Fatalities	Y	N		0 – 9		<NUM_FATALITIES>	[0]
S-21	# Injured	Y	N		0 – 9		<NUM_INJURED>	[0]
S-22	# Restrained	Y	N		0 – 9		<NUM_RESTRAINED>	[0]
S-23	Road Surface	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Asphalt [1] • Concrete [2] • Gravel [3] • Dirt [4] • Other [77] • Unknown [88] 	<RD_SURF_TYPE> enumRDSUF	
S-24	Road Surface Other	N	N	50	All		<RD_SURF_OTHER>	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
S-25	Intersection	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Four-way intersection [2] • T-intersection [3] • Y-intersection [4] • Traffic circle/roundabout [5] • Five-point, or more [6] • Other [77] 	<INTERSECTION> enumRDJUNT	N/A
S-26	Intersection Other		N			Not stored in NCATS crash record		
S-27	Paddle Markers	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • None [1] • Left Side [2] • Right Side [3] • Both Sides [4] • Unknown [88] 	<PADDLE_MARKERS> enumPAD	N/A
S-28	Collision Occurred On	Y	Y	100	All		<OCCUR_ST_NAME>	N/A
S-29	Parking Lot	N	N				<PARKING_LOT>	[N]
S-30	At Intersection With		Y			Not stored in NCATS crash record		
S-31	Distance	N	Y	7	0 – 9 [.]		<DISTANCE>	N/A
S-32	Distance Type	N	Y			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Feet [1] • Miles [2] 	<DISTANCE_TYPE> enumDISTP	
S-33	Direction	N	Y			Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • North [N] • South [S] • East [E] • West [W] • Not Applicable [X] • Unknown [U] 	<DIR_FROM_STREET> enumTRDR	N/A
S-34	Secondary Roadway	N	Y	100	All		<INTRSEC_ST_NAME>	

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
S-35	Approximate	N	Y				<APPROXIMATE>	[N]
S-36	Access Control	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Full Access Control [1] • Partial Access Control [2] • No Access Control [3] 	<ACCESS_CTRL> enumACTRL	N/A
S-37	Roadway Character	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Curve & Grade [1] • Curve & Hillcrest [2] • Curve & Level [3] • Straight & Grade [4] • Straight & Hillcrest [5] • Straight & Level [6] • Other [77] • Unknown [88] 	<RDWAY_CHR> enumRDCH	N/A
S-38	Roadway Character Other		N			Not stored in NCATS crash record		
S-39	Roadway Condition	N	N			Max. values allowed = 11 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Dry [1] • Wet [2] • Snow [3] • Ice [4] • Sand, mud, dirt, oil, gravel [5] • Standing Water [6] • Moving Water [7] • Slush [8] • Other [77] • Unknown [88] 	<RDWAY_COND> enumRDSC	N/A
S-40	Roadway Condition Other	N	N	50	All		<RDWAY_COND_OTH>	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
S-41	Total Through Lanes	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • One [1] • Two [2] • Three [3] • Four [4] • Five [5] • > Five [6] 	<MAIN_ROAD_LANES> enumRDLAN	N/A
S-42	Total All Lanes	N	N		0 – 9		<TOTAL_ALL_LANES>	N/A
S-43	Travel Lane Width	N	N		0 – 9 [.]		<TRVL_PORT_WIDTH>	N/A
S-44	Storage/Turn Lane Width	N	N		0 – 9 [.]		<TURN_LANE_WIDTH>	N/A
S-45	Median Width	N	N		0 – 9 [.]		<MED_LANE_WIDTH>	N/A
S-46	Highway Shoulder Width Left	N	N		0 – 9 [.]		<PAVE_SHLDR_IN>	N/A
S-47	Highway Shoulder Width Right	N	N		0 – 9 [.]		<PAVE_SHLDR_OUT>	N/A
S-48	Roadway Grade	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Not Determined [1] • Relatively Level Roadway [2] • (+) Up Slope [3] • (-) Down Slope [4] 	<GRADE> enumGRADE	N/A
S-49	Roadway Grade Relative To	N	N	4	All		<GRADE_RELT_TO>	N/A
S-50	Roadway Grade Percentage	N	N		0 – 9 [.]		<GRADE_PRECENT>	[0]

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
S-51	Pavement Markings	N	N			<p>Max. values allowed = 13 Valid Form 5 Attributes / NCATS Codes:</p> <ul style="list-style-type: none"> • Centerline, skip-dash, yellow [1] • Centerline, solid, yellow [2] • Centerline, solid double, yellow [3] • No passing barrier, right or left, yellow [4] • Lane line, skip-dash, white [5] • Lane line, solid, white [6] • Edge line, left, yellow [7] • Edge line, right, white [8] • Left turn lane lines, combination of solid and skip-dash, yellow [9] • Turn arrow symbols, right, through, left, or combination of two [10] • None [11] • Other [77] • Unknown [88] 	<PAVE_MARK> enumPVMK	N/A
S-52	Pavement Marking Type	N	N			<p>Valid Form 5 Attributes / NCATS Codes:</p> <ul style="list-style-type: none"> • Paint [1] • Material [2] • Thermoplastic [3] • Raised Markings [4] • Permanent Inlay [5] • Tape [6] • Other [77] • Unknown [88] 	<PAVE_MARK_TYPE> enumPVMKT	N/A
S-53	Pavement Markings Other	N	N	50	All		<PAVE_MARK_OTH>	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
S-54	Highway Description	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Two-way, not divided [1] • Two-way, divided, unprotected median [2] • Two-way, divided, positive median barrier [3] • One-way, not divided [4] • Off-road [6] • Unknown [88] 	<TRAFWY_DESCR> enumTRWAY	N/A
S-55	Weather Conditions	Y	Y			Max. values allowed = 11 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Clear [1] • Cloudy [2] • Fog, smog, smoke [3] • Rain [4] • Sleet, hail (freezing rain or drizzle) [5] • Snow [6] • Severe crosswinds [7] • Blowing sand, soil, dirt, snow [8] • Other [77] • Unknown [88] 	<WEATHER_COND> enumWEAC	N/A
S-56	Weather Conditions Other	N	Y	50	All		<WEATHER_OTHER>	N/A
S-57	Lighting Conditions	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Daylight [1] • Dawn [2] • Dusk [3] • Dark - Spot Lighting [4] • Dark - No Lighting [5] • Dark - Continuous Lighting [6] • Dark - Unknown Lighting [7] • Other [77] • Unknown [88] 	<LIGHTING_COND> enumLTCON	

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
S-58	Lighting Conditions Other	N	N	50	All		<LIGHTING_OTHER>	N/A
S-59	Vehicle Collision Type	Y	Y			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Non-collision [1] • Rear-end [2] • Head-on [3] • Rear-to-rear [4] • Angle [5] • Sideswipe, meeting [6] • Sideswipe, overtaking [7] • Backing [8] • Unknown [88] 	<COLLISION_TYPE> enumCOLTP	N/A
S-60	Location of First Event	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Inside Shoulder [2] • Outside Shoulder [3] • Median [4] • Roadside [5] • Gore [6] • Intersection [7] • Ramp [8] • Private Property [9] • Turn Lane [10] • Travel Lane [11] • Other [77] • Unknown [88] 	<LOC_HARM_EVT> enumLOCHRM	N/A
S-61	Location of First Event, Travel Lane	N	N	5	A – Z 0 – 9		<TRAVEL_LANE_NUM>	N/A
S-62	Location of First Event, Turn Lane	N	N	5	A – Z 0 – 9		<TURN_LANE_NUM>	N/A
S-63	Location of First Event Other	N	N	50	All		<LOC_HARM_EVT_OTH>	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
S-64	Highway Environment Factors	N	N			Max. values allowed = 15 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • None [1] • Weather [2] • Debris [3] • Glare [4] • Shoulders [5] • Road Obstruction [6] • Worn Traffic Surface [7] • Wet, Icy, Snow, Slush [8] • Ruts, Holes, Bumps [9] • Active Work Zone [10] • Inactive Work Zone [11] • Animal In Roadway [12] • Unknown [13] • Other Highway [14] • Other Environmental [15] 	<ENVIR_FACTOR> enumCCENV	N/A
S-65	Highway Environment Factors Other	N	N	50	All		<ENVIR_FACTOR_OTH>	N/A
S-66	Prop. Damage Description	N	N	100	All		<DAMAGE_DESC>	N/A
S-67	Prop. Damage Owner Notified	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Yes [Y] • No [N] 	<OWNER_NOTIFIED> enumLOGICAL	[N]
S-68	Prop. Damage Owner Last Name	N	N	30	A – Z 0 – 9 [–]		<LAST_NAME>	N/A
S-69	Prop. Damage Owner First Name	N	N	20	A – Z 0 – 9 [–]		<FIRST_NAME>	N/A
S-70	Prop. Damage Owner Mid. Name	N	N	20	A – Z 0 – 9 [–]		<MIDDLE_NAME>	N/A
S-71	Prop. Dmg. Owner Address	N	N	100	All		<ST_ADDR>	N/A
S-72	Prop. Damage Owner City	N	N	50	All		<CITY>	N/A
S-73	Prop. Damage Owner State	N	N	2	A – Z		<STATE>	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
S-74	Prop. Damage Owner ZIP	N	N	11	0 – 9 [-]		<ZIP>	N/A
S-75	First Harmful Event	N	N			Valid Form 5 Attributes / NCATS Codes: See Sequence of Event (V-85)	<FST_HARM_EVENT>	N/A
S-76	Description of Accident	N	Y	65,535	All	The NCATS database will store up to 4 GB of data in the narrative column. The value of 65,535 was chosen as the maximum length because it is the maximum size of a MS Access MEMO field.	<NARRATIVE>	N/A
S-77	Investigation Complete	N	Y			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: • Yes • No	<INVEST_COMPLETE> enumLOGICAL	[N]
S-78	Photos Taken	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: • Yes • No	<PHOTO_TAKEN> enumLOGICAL	[N]
S-79	Scene Diagram	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: • Yes • No	<SCENE_DIAGRAM> enumDIAGRAM	N/A
S-80	Statements	N	Y			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: • Yes • No	<STATEMENT> enumLOGICAL	[N]
S-81	# of Statements	N	Y		0 – 9		<NUM_STATEMENTS>	N/A
S-82	Date Notified	N	Y			Must be a valid date value	<DATE_NOTIFIED>	N/A
S-83	Time Notified	N	Y		0 – 9 [:]	Must be a valid 24-hour (military) time (HHMM)	<TIME_NOTIFIED>	N/A
S-84	Arrival Date	N	Y			Must be a valid date value	<ARRIVAL_DATE>	N/A
S-85	Arrival Time	N	Y		0 – 9 [:]	Must be a valid 24-hour time value (HHMM)	<ARRIVAL_TIME>	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
S-86	Investigator	Y	Y	50	A – Z [–]		<OFR_NAM>	N/A
S-87	Investigator ID	Y	Y		A – Z 0 – 9		<OFR_BGE_NUM>	N/A
S-88	Report Date	Y	Y			Must be a valid date value	<INVEST_DATE>	N/A
S-89	Reviewed By	N	Y	50	A – Z [–]		<OFR_NAM>	N/A
S-90	Date Reviewed	N	Y			Must be a valid date value	<REVIEW_DATE>	N/A
S-91	Activity Code	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Preliminary [1] • Initial [2] • Re-submission [3] • Supplement [4] 	<ACTIVITY_CODE>	[1]

Vehicle Information Form

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
V-1	Vehicle Number	Y	Y		0 – 9		<VEH_UNIT_NUM>	N/A
V-2	At Fault	N	Y			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Yes [Y] • No [N] 	<AT_FAULT> enumLOGICAL	[N]
V-3	Non-Contact Vehicle	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Yes [Y] • No [N] 	<NON_CONTACT_VEHICLE> enumLOGICAL	[N]

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
V-4	Direction of Travel	Y	Y			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • North [N] • South [S] • East [E] • West [W] • Not Applicable [X] • Unknown [U] 	<TRAVEL_DIR> enumTRDR	N/A
V-5	Highway/Street Name	Y	Y	100	All		<TRAVELING_ON>	N/A
V-6	Travel Lane Number	N	N	5	All		<TRVL_LAN_NUM>	N/A
V-7	Vehicle Action	Y	Y			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Going Straight [1] • Turning Right [2] • Turning Left [3] • Making U-Turn [4] • Parked [5] • Backing Up [6] • Stopped [7] • Entering Park Position [8] • Leaving Park Position [9] • Passing Other Vehicle [12] • Changing Lanes [13] • Other Turning Movement [14] • Traveling Wrong Way [16] • Driverless-Moving Vehicle [17] • Racing [18] • Entering Lane [19] • Leaving Lane [20] • Other [77] • Unknown [88] 	<VEH_ACTION> enumVHACT	N/A
V-8	Vehicle Action Other	N	Y			Not stored in NCATS crash record		
V-9	Last Name	N	Y	30	A – Z [–] Space		<LAST_NAME>	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
V-10	First Name	N	Y	20	A – Z [-] Space		<FIRST_NAME>	N/A
V-11	Middle Name	N	Y	20	A – Z [-] Space		<MIDDLE_NAME>	N/A
V-12	Street Address	N	Y	100	All		<ST_ADDR>	N/A
V-13	City	N	Y	50	All		<CITY>	N/A
V-14	State	N	Y	2	A – Z		<STATE>	N/A
V-15	ZIP	N	Y	11	0 – 9 [-]		<ZIP>	N/A
V-16	Sex	N	Y	1		Valid Form 5 Attributes / NCATS Codes: • Female [F] • Male [M] • Unknown [U]	<SEX> enumSEX	N/A
V-17	DOB	N	Y			Must be a valid date value	<DOB>	N/A
V-18	Phone Number	N	Y	20	0 – 9		<PHONE_NUM>	N/A
V-19	OLN	N	Y	25	A – Z 0 – 9 [-]		<OLN>	N/A
V-20	OLN State	N	Y	2	A – Z	Valid Form 5 Attributes / NCATS Codes: • AK [AK] • AL [AL] • AR [AR] • AZ [AZ] • CA [CA] • CO [CO] • CT [CT] • DC [DC] • DE [DE] • FL [FL] • GA [GA] • HI [HI] • IA [IA] • ID [ID] • IL [IL] • IN [IN]	<STATE> enumSTATE	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
						<ul style="list-style-type: none"> • KS [KS] • KY [KY] • LA [LA] • MA [MA] • MD [MD] • ME [ME] • MI [MI] • MN [MN] • MO [MO] • MS [MS] • MT [MT] • NB [NB] • NC [NC] • ND [ND] • NH [NH] • NJ [NJ] • NM [NM] • NV [NV] • NY [NY] • OH [OH] • OK [OK] • OR [OR] • PA [PA] • RI [RI] • SC [SC] • SD [SD] • TN [TN] • TX [TX] • UT [UT] • VA [VA] • VT [VT] • WA [WA] • WI [WI] • WV [WV] • WY [WY] • Other country/ territory not listed [YY] 		
V-21	Driver License Type	N	N			Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Commercial [CDL] • Non-Commercial [DL] 	<TYPE> enumDLTP	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
V-22	License Status	N	N			Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Valid [0] • Within Restrictions [1] • Beyond Restrictions [2] • Under Suspension [3] • Revoked [4] • No Endorsement For This Vehicle Type [5] • No License [6] • Expired License [7] • No License Required [8] • Unknown [88] 	<STATUS> enumDLST	N/A
V-23	Compliance – Restrict	N	N			Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Yes [Y] • No [N] 	<COMP_ENDORSE> enumCOMPLAC	N/A
V-24	Compliance – Endorse	N	N			Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Yes [Y] • No [N] 	<COMP_RESTRICT> enumCOMPLAC	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
V-25	Restrictions	N	N			Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • None [0] • Corrective Lenses [1] • Mechanical Devices [2] • Prosthetic Aids [3] • Automatic Transmission [4] • Outside Mirrors [5] • Limit To Daylight Only [6] • Limit To Employment Only [7] • Limited – Other [8] • CDL Intrastate Only [9] • Vehicle Without Air Brakes [10] • Except Class A Bus [11] • Except Class A And Class B Bus [12] • Except Tractor-Trailer [13] • Farm Waiver [14] • Instruction Permit [15] • Other [77] 	<RESTRICTION> enumDLRES	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
V-26	Endorsements	N	N			Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Motorcycle, moped or tri-mobile [M] • Recreational (single vehicle > 26,001 lbs GVWR towing a combination of vehicles weighing > 10,000 lbs. not to exceed 70 ft.) [R] • Exceeds 10,000 lbs GVWR [J] • Fire, farm, military exemption from commercial license requirements [F] • Doubles and triples [T] • Passengers [P] • Hazardous materials and tanker [X] • Tankers [N] • Hazardous Materials [H] 	<ENDORSE_CODE> enumDLEC	N/A
V-27	Transported By	Y	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Not transported [1] • EMS [2] • Police [3] • Other [77] • Unknown [88] 	<TRANS_BY> enumINJTRNS	N/A
V-28	Transported by Agency Name	N	N	50	All		<EMS_NAME>	N/A
V-29	Transported by Other	N	N	50	All		<TAKEN_BY_OTHER>	N/A
V-30	Transported To	N	N	50	All		<TRANS_TO>	N/A
V-31	Person Type	Y	Y			Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Driver [1] • Passenger [2] • Witness [3] • Other [77] • Unknown [88] 	<TYPE_CODE> enumPERTP	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
V-32	Seating Position	N	N			Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Front Seat - Left Side (Motorcycle Driver) [1] • Front Seat – Middle [2] • Front Seat - Right Side [3] • Second Seat - Left Side (Motorcycle Passenger) [4] • Second Seat – Middle [5] • Second Seat - Right Side [6] • Third Seat - Left Side (Motorcycle Passenger) [7] • Third Seat – Middle [8] • Third Seat – Right [9] • Sleeper Section Of Cab (Truck) [10] • Passenger In Other Enclosed Passenger Or Cargo Area [11] • Passenger In Unenclosed Passenger Or Cargo Area [12] • Trailing Units [13] • Riding On Vehicle Exterior (Non-Trailing Unit) [14] • Unknown [15] 	<SEAT_POSITION> enumSETPOS	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
V-33	Occupant Restraints	N	Y			Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Not Installed [1] • Not Used [2] • Used Shoulder Belt Only [3] • Improper Use Of Shoulder Belt [4] • Used Lap Belt Only [5] • Improper Use Of Lap Belt [6] • Used Shoulder And Lap Belt [7] • Improper Use Of Shoulder And Lap Belt [8] • Child Safety Seat Used [9] • Improper Use Of Child Safety Seat [10] • Helmet Used [11] • Improper Use Of Helmet [12] • Restraint Use Unknown [13] 	<OCCUPANT_REST> enumOCCRST	N/A
V-34	Injury Severity	Y	N			Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Fatal Injury [K] • Incapacitating [A] • Non-Incapacitating [B] • Claimed [C] • No Injury [O] • Not Reported [N] • Unknown [U] 	<INJURED_STATUS> enumINJCLS	[O]

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
V-35	Injury Location	N	N			Max. values allowed = 10 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • None [0] • Head [1] • Face [2] • Neck [3] • Thorax (chest) [4] • Abdomen and pelvis [5] • Spine [6] • Upper extremity [7] • Lower extremity [8] • Unspecified [9] 	<INJURED_AREA> enumINJSIT	N/A
V-36	Airbags	N	Y			Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Not Installed [1] • Not Deployed [2] • Deployed, Front [3] • Deployed, Side [4] • Deployed, Front and Side [5] • Deployment Unknown [6] 	<AIRBAGS> enumAIRBG	N/A
V-37	Airbag Switch	N	Y			Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • ON-OFF Switch not Present [1] • Switch in On Position [2] • Switch In Off Position [3] • Unknown if ON-OFF Switch Present [4] • Unknown Switch Position [5] 	<AIRBAG_SWITCH> enumAIRBGS	N/A
V-38	Ejected	N	N			Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Not Ejected [0] • Totally Ejected [1] • Partially Ejected [2] • Not Applicable [3] • Not Reported [4] • Unknown [88] 	<EJECTED> enumEJCT	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
V-39	Trapped	N	N			Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Not Trapped [0] • Extracted by Mechanical Means [1] • Freed by Non-Mechanical Means [2] • Not Reported [3] • Unknown [88] 	<TRAPPED> enumTRAP	N/A
V-40	Alcohol/Drug Involvement	N	N			Max. values allowed = 5 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Neither alcohol nor drugs suspected [1] • Yes - alcohol suspected [2] • Yes - drugs suspected [3] • Yes - alcohol and drugs suspected [4] • Unknown [88] 	<ALCO_DRUG_SUSPC> enumALDR	[1]
V-41	Method of Determination	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Blood [1] • Urine [4] • Field Sobriety [5] • Preliminary Breath [6] • Evidentiary Breath [7] • Driver Admission [8] 	<BAC_TEST_TYPE> enumBACT	N/A
V-42	Test Results	N	N		0 – 9 [.]		<TESTING_VALUE>	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
V-43	Driver Factors	Y	Y			Max. values allowed = 10 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Apparently normal [1] • Physical impairment [2] • Inattention/Distracted [3] • Illness [4] • Fell asleep, fainted, fatigued, etc. [5] • Had Been Drinking [6] • Drug Involvement [7] • Obstructed View [9] • Other Improper Driving [10] • Unknown [88] 	<DRIVER_FACTOR> enumDRCON	N/A
V-44	Driver Inattention or Distracted	N	Y			Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Cell Phone [1] • Electronic Equipment [2] • Radio / CD Player [3] • Smoking [4] • Eating [5] • Children [6] • Animals [7] • Personal Hygiene [8] • Reading [9] • Other [77] • Unknown [88] 	<DRICER_DISTRACTED> enumINDIS	N/A
V-45	Vehicle Year	N	Y	4	0 – 9	Must be a valid year	<VEH_YEAR>	[0000]
V-46	Vehicle Make	N	Y	50	All		<VEH_MAKE>	
V-47	Vehicle Model	N	Y	50	All		<VEH_MODEL>	
V-48	Vehicle Style	N	Y			Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Sedan, 2 door [2D] • Hatchback, 2 door [2H] • Sedan, 4 door [4D] • Hatchback, 4 door [4H] • Ambulance [AM] • Bus [BU] • Convertible [CV] • Dump [DP] 	<VEH_STYLE> enumVST	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
						<ul style="list-style-type: none"> • Tractor Truck, Diesel [DS] • Flatbed or Platform [FB] • Fire Truck [FT] • Golf Cart [GC] • Garbage or Refuse [GG] • Lowboy or Lowbed [LB] • Lift Boom [LF] • Log [LG] • SUV [LL] • Limousine [LM] • Livestock Rack [LS] • Motorcycle [MC] • Moped [MD] • Motorized Home [MH] • Multi-wheel/ATV [MV] • Other [OT] • Pickup [PK] • Refrigerated Van [RF] • Semi [SE] • Snowmobile [SM] • Station Wagon [SW] • Stake or Rack [ST] • Tanker [TN] • Tractor Truck, Gasoline [TR] • Tow Truck/Wrecker [TT] • Van [VN] • Well Driller [WD] 		
V-49	Plate Number	N	Y	10	A – Z 0 – 9		<LIC_PLATE_NUM>	N/A
V-50	Vehicle State	N	Y	2		Same as State (V-20)	<LIC_PLATE_STATE> enumSTATE	[NV]
V-51	License Expiration	N	Y	4	0 – 9	Must be a valid year value	<LIC_EXPIRE_YEAR>	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
V-52	Vehicle Color	N	Y			Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Amethyst [AME] • Beige [BGE] • Black [BLK] • Blue [BLU] • Blue, Dark [DBL] • Blue, Light [LBL] • Bronze [BRZ] • Brown [BRO] • Burgandy/Maroon [MAR] • Camouflage [CAM] • Chrome/Stainless [COM] • Copper [CPR] • Cream/Ivory [CRM] • Gold [GLD] • Gray [GRY] • Green [GRN] • Green, Dark [DGR] • Green, Light [LGR] • Lavender [LAV] • Mauve [MVE] • Multicolored [COL] • Orange [ONG] • Pink [PNK] • Purple [PLE] • Red [RED] • Tan [TAN] • Taupe [TPE] • Teal [TEA] • Turquoise [TRQ] • White [WHI] • Yellow [YEL] 	<VEH_COLOR> enumVCO	N/A
V-53	VIN	N	Y	30	A – Z 0 – 9	No spaces allowed	<VIN>	N/A
V-54	RO Same as Driver	N	Y			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Yes [Y] • No [N] 	<RO_SAME_FLAG> enumLOGICAL	[Y]

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
V-55	RO Last Name	N	Y	50	A – Z 0 – 9 [–] Space		<LAST_NAME>	N/A
V-56	RO First Name	N	Y	50	A – Z 0 – 9 [–] Space		<FIRST_NAME>	N/A
V-57	RO Middle Name	N	Y	50	A – Z 0 – 9 [–] Space		<MIDDLE_NAME>	N/A
V-58	RO Address	N	Y	100	All		<ST_ADDR>	N/A
V-59	RO City	N	Y	50	All		<CITY>	N/A
V-60	RO State	N	Y	2	A – Z		<STATE>	N/A
V-61	RO ZIP	N	Y	11	0 – 9 [–]	No spaces allowed	<ZIP>	N/A
V-62	Insured	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: • Yes [Y] • No [N]	<INSURED> enumLOGICAL	[N]
V-63	Insurance Company Name	N	Y	50	All		<INSUR_COM_NAME>	N/A
V-64	Insurance Policy Number	N	Y	50	All		<INSUR_POLY_NUM>	N/A
V-65	Policy Effective Date	N	Y			Must be a valid date value	<INSUR_EFF_DATE>	N/A
V-66	Policy Expiration Date	N	Y			Must be a valid date value	<INSUR_END_DATE>	N/A
V-67	Ins. Co. Address / Telephone	NA	Y			Not stored in NCATS crash record		
V-68	Vehicle Towed	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: • Yes [Y] • No [N]	<TOWED> enumLOGICAL	[N]
V-69	Vehicle Towed By	N	N	50	All		<REMOVED_BY>	N/A
V-70	Vehicle Towed To	N	N	50	All		<REMOVED_TO>	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
V-71	Vehicle Factors	N	Y			Max. values allowed = 20 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Failed to Yield Right of Way [2] • Disregarded traffic signs, signals, road markings [3] • Exceeded authorized speed limit [4] • Driving too fast for conditions [5] • Made an improper turn [6] • Wrong side or wrong way [7] • Followed too closely [8] • Failure to keep in proper lane or running off road [9] • Operating vehicle in erratic, reckless, careless, negligent or aggressive manner [10] • Over-correcting/ over-steering [12] • Mechanical Defects [17] • Drove Left of Center [18] • Ran Off Road [19] • Hit and Run [20] • Driverless Vehicle [21] • Unsafe Lane Change [22] • Other Improper Driving [23] • Unsafe Backing [25] • Road Defect [26] • Object Avoidance [27] • Other [77] • Unknown [88] 	<CONT_VEH_CODE> enumCCVEH	N/A
V-72	Vehicle Factors Other	N	Y	50	All		<VEH_FACTOR_OTH>	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
V-73	Mechanical Defect	N	N			Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Tires [1] • Brakes [2] • Steering [3] • Stuck Accelerator [4] • Mechanical [5] • Hitch [6] • Headlights [7] • Unknown [88] 	<VEH_DEFECT_CODE> enumVHDFT	N/A
V-74	First Contact Area	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Front [1] • Right Front [2] • Right Side [3] • Right Rear [4] • Rear [5] • Left Rear [6] • Left Side [7] • Left Front [8] 	<FST_CONTACT> enumPOIMC	N/A
V-75	Underride / Override	N	N			Max. values allowed = 2 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Underride [U] • Override [O] 	<UNDER_OVERRIDE> enumUNDOVR	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
V-76	Damaged Areas	N	Y			Max. values allowed = 20 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Center front [1] • Right front [2] • Right side [3] • Right rear [4] • Rear center [5] • Left rear [6] • Left side [7] • Left front [8] • Top and windows [9] • Under Carriage [10] • Other [77] • Unknown [88] 	<DAMAGE_AREA> enumDAMG	N/A
V-77	Damaged Areas Other	N	Y	50	All			
V-78	Distance Traveled After Impact	N	N		0 – 9		<DAMAGE_AREA_OTH>	N/A
V-79	Distance Type	N	N			Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Feet [1] • Miles [2] • Inches [5] • Moved [7] • Other [77] • Unknown [88] 	<DISTANCE_TYPE> enumDISTP	N/A
V-80	Speed Estimated From	N	N		0 – 9		<EST_SPEED_LOW>	N/A
V-81	Speed Estimated To	N	N		0 – 9		<EST_SPEED_HIGH>	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
V-82	Posted Speed	N	N			Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • 5 [1] • 10 [2] • 15 [3] • 20 [4] • 25 [5] • 30 [6] • 35 [7] • 40 [8] • 45 [9] • 50 [10] • 55 [11] • 60 [12] • 65 [13] • 70 [14] • 75 [15] • Unknown [88] 	<POSTED_SPEED> enumPSDC	N/A
V-83	Extent of Damage	Y	Y			Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Minor [1] • Functional (Moderate) [2] • Disabling (Major) [3] • Severe/Vehicle Totaled [4] • None [6] • Unknown [88] 	<EXTENT_DAMAGE> enumDMGE	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
V-84	Traffic Control Device	N	N			<p>Max. values allowed = 5</p> <p>Valid Form 5 Attributes / NCATS Codes:</p> <ul style="list-style-type: none"> • Speed Zone [1] • Signal Light [2] • Flashing Light [3] • Stop Sign [4] • Yield Sign [5] • Warning Sign [6] • No Passing [7] • Railroad Sign [10] • Railroad Signal [12] • Pedestrian Signal [13] • Officer/Flagger [14] • School Zone [15] • Chains/Snow Tires Req. [16] • No Controls [17] • Permissive Green [18] • Turn Signal [19] • Marked Lanes [20] • Other [77] • Unknown [88] 	<DEVICE_TYPE> enumTRCON	N/A
V-84	Traffic Control Device – Functioning	N	N			<p>Max. values allowed = 1</p> <p>Valid Form 5 Attributes / NCATS Codes:</p> <ul style="list-style-type: none"> • Yes [Y] • No [N] 	<DEVICE_FUNCTION> enumLOGICAL	[N]
V-84	Traffic Control Device – Obscured	N	N			<p>Max. values allowed = 1</p> <p>Valid Form 5 Attributes / NCATS Codes:</p> <ul style="list-style-type: none"> • Yes [Y] • No [N] 	<DEVICE_OBSCURED>	[N]
V-85	Sequence of Events	N	N			<p>Valid Form 5 Attributes / NCATS Codes:</p> <ul style="list-style-type: none"> • Overturn/rollover [101] • Fire/explosion [102] • Immersion [103] • Jackknife [104] • Cargo/equipment loss or shift [105] • Equipment failure 	<SEQ_OF_EVENT> enumSQEVNT	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
						<ul style="list-style-type: none"> (blown tire, brake failure, etc.) [106] • Separation of Units [107] • Ran Off Road Right [108] • Ran Off Road Left [109] • Cross Median/ Centerline [110] • Other Non-Collision [111] • Unknown Non-Collision [112] • Pedestrian [201] • Pedal Cycle [202] • Railway Vehicle [203] • Dog/Coyote [204] • Burro [205] • Cattle [206] • Deer [207] • Horse [208] • Bear [209] • Antelope [210] • Big Horn Sheep [211] • Elk [212] • Other Animal [213] • Motor Vehicle In Transport [214] • Parked Motor Vehicle [215] • Work Zone Maintenance Equipment [216] • Slow/Stopped Vehicle [217] • Other Movable Object [218] • Unknown Movable Object [219] • Impact Attenuator/ Crash Cushion [301] • Bridge Overhead Structure [302] • Bridge Pier or Abutment [303] • Bridge Parapet End [304] • Bridge Rail [305] • Guardrail Face [306] • Guardrail End [307] • Median Barrier [308] • Highway Traffic Sign Post [309] • Overhead Sign Support [310] 		

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
						<ul style="list-style-type: none"> • Light/Luminary Support [311] • Utility Pole [312] • Other Post, Pole or Support [313] • Culvert [314] • Ditch [315] • Embankment [316] • Tree/Shrub [317] • Mailbox [318] • Fence/Wall [319] • Other Fixed Objects (Building, Tunnel, etc.) [320] • Work Zone Maintenance Equipment [321] • Unknown Fixed Object [322] 		
V-86	Most Harmful Event	N	N			Valid Form 5 Attributes / NCATS Codes: Same as Sequence of Event (V-85)	<MOST_HARM_EVENT> enumSQEVNT	N/A
V-87	NRS/CFR/CC/MC/Pending		Y			Not stored in NCATS crash record		
V-88	Violation		Y			Not stored in NCATS crash record		
V-89	NOC		Y			Not stored in NCATS crash record		
V-90	Citation Number	N	Y	20	A – Z 0 – 9 [–]	Max. values allowed = 2	<CITATION_NUM>	
V-91	Trailing Unit	N	N		0 – 9	Not stored in NCATS crash record		
V-92	Trailing Unit VIN	N	N	30	A – Z 0 – 9	Max. values allowed = 3	<TRR_VIN>	N/A
V-93	Trailing Unit Plate	N	N	10	All	Max. values allowed = 3	<TRL_LP_NUM>	N/A
V-94	Trailing Unit Plate State	N	N	2		Max. values allowed = 3 Valid Form 5 Attributes / NCATS Codes: Same as State (V-20)	<TRL_REG_ST> enumSTATE	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
V-95	Trailing Unit Type	N	N			<p>Max. values allowed = 3</p> <p>Valid Form 5 Attributes / NCATS Codes:</p> <ul style="list-style-type: none"> • Auto Carrier [1] • Auxiliary Dolly [2] • Boat [3] • Brush or Wood Chipper [4] • Cable Reel [5] • Camper [6] • Camping [7] • Converter Gear [8] • Dolly Converter [9] • Full Trailer [10] • Flatbed or Platform [11] • Generator [12] • Grain [13] • Hopper [14] • Horse [15] • House Trailer [16] • Hydraulic Dump [17] • Livestock [18] • Logging [19] • Log or Wood Splitter [20] • Lowbed [21] • Motorcycle [22] • Pole Trailer [23] • Refrigerated Van [24] • Semi [25] • Service [26] • Shipping Container [27] • Single Wheel [28] • Snowmobile [29] • Tank Cargo [30] • Tanker [31] • Tent Trailer [32] • Travel Trailer [33] • Two Wheel [34] • Utility [35] • Van [36] • Other [77] • Unknown [88] 	<TRL_TYPE> enumTRLTYP	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
V-96	Commercial Vehicle	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Yes [Y] • No [N] 	<COMM_VEH> enumLOGICAL	[N]
V-97	School Bus	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Yes [Y] • No [N] 	<SCHOOL_BUS> enumLOGICAL	[N]
V-98	Commercial Vehicle Configuration	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Any 4-Tire Vehicle [0] • Bus, 9-15 Occupants Including Driver [1] • Single Unit Truck (2 Axle/6 Or More Tires) [2] • Single Unit Truck (3 Or More Axles) [3] • Truck With Trailer [4] • Truck Tractor Only (Bobtail) [5] • Tractor/Trailer [6] • Tractor With Double Trailers [7] • Tractor With Triple Trailers [8] • Bus, Greater Than 15 Occupants Including Driver [9] • Tractor/Semi Trailer [10] • Passenger Vehicle, (Haz-Mat) [11] • Light Truck, (Haz-Mat) [12] • Other Heavy Vehicle [13] • Other - Unable To Classify [77] 	<VEH_CONFIG> enumVHCON	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
V-99	Commercial Vehicle Source	N	N			Max. values allowed = 5 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Driver [1] • Log Book [2] • Shipping Papers/ Trip Manifest [3] • State Registration [4] • Side of Vehicle [5] • Other [77] 	<COMM_SOURCE> enumCOMSRC	N/A
V-100	Carrier Name	N	N	50	All		<CARRIER_NAME>	N/A
V-101	Carrier Address	N	N	100	All		<CARRIER_ADDRESS>	N/A
V-102	Carrier City	N	N	50	All		<CITY>	
V-103	Carrier State	N	N	2	A – Z		<STATE>	N/A
V-104	Carrier ZIP	N	N	11	0 – 9 [-]		<ZIP>	N/A
V-105	Power Unit GVWR	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • <=10,000 lbs [1] • 10,001 – 26,000 lbs [2] • >= 26,001 lbs [3] 	<GVWR> enumGVWR	N/A
V-106	HAZMAT	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Yes [Y] • No [N] 	<HAZMAT> enumLOGICAL	[N]
V-107	HAZMAT Released	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Yes [Y] • No [N] 	<HAZMAT_RELEASE>	[NA]
V-108	HAZMAT ID #	N	N	22	A – Z 0 – 9		<HAZMAT_PLACARD>	[3]
V-109	Hazard Classification #	N	N		0 – 9		<DIAMOND_NUM>	N/A
V-110	Type of Carrier	N	N			See V-111		

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
V-111	Carrier Number	N	N	50	A – Z 0 – 9	Depending on the type of carrier (single state, US DOT, Canada or Mexico) the corresponding XML tag shall be populated. If no carrier number is entered, the <NO_CARRIER_NUM> tag shall be populated with the value 'Y'. If a carrier number is entered, the <NO_CARRIER_NUM> tag shall be populated with the value 'N'.	<ST_CARR_NUM> Or <DOT_CARR_NUM> Or <CAN_CARR_NUM> Or <MEXICO_CARR_NUM> Or <NO_CARRIER_NUM>	N/A
V-112	NAS Safety Report Number	N	N	20	A – Z 0 – 9		<NAS_SAFETY_REPT>	N/A
V-113	Traffic Control Device Other	N	N	50	All			N/A
V-114	Cargo Body Type					Max. values allowed = 13 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Pole [6] • Tank [2] • Flatbed [8] • Dump [9] • Van / Box [4] • Concrete Mixer [10] • Auto Carrier [11] • Garbage / Refuse [12] • Grain, Gravel, Chips [5] • Bus, 9 – 15 Occupants [3] • Bus, > 15 Occupants [2] • Not Applicable [1] • Other [77] • Unknown [88] 	<CARGO_BODY_TYPE> enumCGOBDY	N/A
V-115	Suffix Name	N	N	5	A – Z	Exists on paper Form 5	<SUFFIX_NAME>	N/A
V-116	Driver License Class	N	N	5	A – Z 0 – 9	This field stores an alphanumeric driver license class value.	<DLCLASS>	N/A

Non-Motorist Information Form

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML
N-1	Non-Motorist Number	Y	N		0 – 9		<NON_MOTORIST_NUM>	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML
N-2	At Fault	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: • Yes [Y] • No [N]	<AT_FAULT> enumLOGICAL	[N]
N-3	Non-Contact Person	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: • Yes [Y] • No [N]	<NON_CONTACT_PERSON> enumLOGICAL	N/A
N-4	Non-Motorist Type	Y	N			Valid Form 5 Attributes / NCATS Codes: • Pedestrian [4] • Pedal Cyclist [5] • Skater [6] • Wheelchair [7] • Other [77] • Unknown [88]	<NON_MOTOR_TYPE_CODE> enumPERTP	N/A
N-5	Non-Motorist Type Other	N	N	50	All		<TYPE_OTHER>	N/A
N-6	Direction of Travel		N			Valid Form 5 Attributes / NCATS Codes: • North [N] • South [S] • East [E] • West [W] • Not Applicable [X] • Unknown [U]	<TRVL_DIR> enumTRDR	N/A
N-7	Highway/Street Name	N	N	100	All		<TRAVELING_ON>	N/A
N-8	Last Name	N	N	30	A – Z [-] Space		<LAST_NAME>	N/A
N-9	First Name	N	N	20	A – Z [-] Space		<FIRST_NAME>	N/A
N-10	Middle Name	N	N	20	A – Z [-] Space		<MIDDLE_NAME>	N/A
N-11	Suffix Name	N	N				<SUFFIX_NAME>	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML
N-12	Street Address	N	N	100	All		<ST_ADDR>	N/A
N-13	City	N	N	50	All		<CITY>	N/A
N-14	State	N	N	2	A – Z		<STATE>	N/A
N-15	ZIP	N	N	11	0 – 9 [–]		<ZIP>	N/A
N-16	Sex	N	N			Valid Form 5 Attributes / NCATS Codes: • Female [F] • Male [M] • Unknown [U]	<SEX> enumSEX	N/A
N-17	DOB	N	N			Must be a valid date value	<DOB>	N/A
N-18	Phone Number	N	N	20	0 – 9		<PHONE_NUM>	N/A
N-19	OLN	N	N	25	A – Z 0 – 9 [–]		<OLN>	N/A
N-20	OLN State	N	N	2	A – Z	Valid Form 5 Attributes / NCATS Codes: Same as State (V-20)	<STATE> enumSTATE	N/A
N-21	Transported By	Y	N			Valid Form 5 Attributes / NCATS Codes: • Not transported [1] • EMS [2] • Police [3] • Other [77] • Unknown [88]	<TRANS_BY> enumINJTRNS	N/A
N-22	Transported by Agency Name	N	N	50	All		<EMS_NAME>	N/A
N-23	Transported by Other	N	N	50	All		<TAKEN_BY_OTHER>	N/A
N-24	Transported To	N	N	50	All		<TRANS_TO>	N/A
N-25	Person Type	Y	N			Valid Form 5 Attributes / NCATS Codes: • Pedestrian [4] • Pedal Cyclist [5] • Skater [6] • Wheelchair [7] • Other [77] • Unknown [88]	<TYPE_CODE> enumPERTP	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML
N-26	Seating Position	N	N			Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Front Seat – Left Side (Motorcycle Driver) [1] • Front Seat – Middle [2] • Front Seat – Right Side [3] • Second Seat – Left Side (Motorcycle Passenger) [4] • Second Seat – Middle [5] • Second Seat – Right Side [6] • Third Seat – Left Side (Motorcycle Passenger) [7] • Third Seat – Middle [8] • Third Seat – Right [9] • Sleeper Section Of Cab (Truck) [10] • Passenger In Other Enclosed Passenger Or Cargo Area [11] • Passenger In Unenclosed Passenger Or Cargo Area [12] • Trailing Units Riding On Vehicle Exterior (Non-Trailing Unit) [14] • Unknown [15] 	<SEAT_POSITION> enumSETPOS	N/A
N-27	Injury Severity	Y	N			Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Fatal Injury [K] • Incapacitating [A] • Non-Incapacitating [B] • Claimed [C] • No Injury [O] • Not Reported [N] • Unknown [U] 	<INJURED_STATUS> enumINJCLS	[O]

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML
N-28	Injury Location	N	N			Max. values allowed = 10 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • None [0] • Head [1] • Face [2] • Neck [3] • Thorax (chest) [4] • Abdomen and pelvis [5] • Spine [6] • Upper extremity [7] • Lower extremity [8] • Unspecified [9] 	<INJURED_AREA> enumINJSIT	N/A
N-29	Ejected	N	N			Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Not Ejected [0] • Totally Ejected [1] • Partially Ejected [2] • Not Applicable [3] • Unknown [88] 	<EJECTED> enumEJCT	N/A
N-30	Trapped	N	N			Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Not Trapped [0] • Extracted by Mechanical Means [1] • Freed by Non- Mechanical Means [2] • Unknown [88] 	<TRAPPED> enumTRAP	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML
N-31	Non-Motorist Conditions	N	N			<p>Max. values allowed = 9 Valid Form 5 Attributes / NCATS Codes:</p> <ul style="list-style-type: none"> • Apparently normal [1] • Physical impairment [2] • Emotional (depression, angry, disturbed) [3] • Illness [4] • Fell asleep, fainted, fatigue, etc. [5] • Under the influence of medications/drugs/alcohol [6] • Other [77] • Unknown [88] 	<CONDITION> enumNMCON	N/A
N-32	Non-Motorist Conditions Other	N	N	50	All		<COND_OTH>	N/A
N-33	Alcohol/Drug Involvement	N	N			<p>Max. values allowed = 5 Valid Form 5 Attributes / NCATS Codes:</p> <ul style="list-style-type: none"> • Neither alcohol nor drugs suspected [1] • Yes - alcohol suspected [2] • Yes - drugs suspected [3] • Yes - alcohol and drugs suspected [4] • Unknown [88] 	<ALCO_DRUG_SUSPC> enumALDR	[1]
N-34	Method of Determination	N	N			<p>• Max. values allowed = 1 • Valid Form 5 Attributes / NCATS Codes:</p> <ul style="list-style-type: none"> • Blood [1] • Urine [4] • Field Sobriety [5] • Preliminary Breath [6] • Evidentiary Breath [7] • Driver Admission [8] 	<BAC_TEST_TYPE> enumBACT	N/A
N-35	Test Results	N	N		0 – 9 [.]		<TESTING_VALUE>	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML
N-36	Non-Motorist Action	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Entering or crossing specified location [1] • Walking, running, jogging, playing, cycling [2] • Working in Roadway [3] • Pushing vehicle [4] • Approaching or leaving vehicle [5] • Playing or working on vehicle [6] • Standing [7] • Other [77] • Unknown [88] 	<ACTION> enumNMVA	N/A
N-37	Non-Motorist Action Other	N	N	50	All		<ACTION_OTHER>	N/A
N-38	Non-Motorist Factors	N	N			Max. values allowed = 10 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Improper crossing [1] • Darting [2] • Lying and/or illegally in roadway [3] • Failure to yield right of way [4] • Not visible (dark clothing) [5] • Inattentive (talking, eating, etc.) [6] • Failure to obey traffic signs, signals, or officer [7] • Wrong side of road [8] • Other [77] • Unknown [88] 	<FACTORS> enumCCNM	N/A
N-39	Non-Motorist Factors Other	N	N	50	All		<FACTORS_OTHER>	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML
N-40	Location Prior to Impact	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Marked crosswalk at intersection [1] • At intersection but no crosswalk [2] • Non-intersection crosswalk [3] • Driveway access crosswalk [4] • In roadway [5] • Median (but not on shoulder) [7] • Island [8] • Shoulder [9] • Sidewalk [10] • Beyond 10 feet of roadway (within traffic way) [12] • Outside traffic way [13] • Shared-use path or trails [14] • Other [77] • Unknown [88] 	<LOC_PRI_IMPT> enumNMLOC	N/A
N-41	Location Prior to Impact Other	N	N	50	All		<LOC_PRI_IMPT_OTH>	N/A
N-42	Safety Equipment Used	N	N			Max. values allowed = 9 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • None used [1] • Helmet used [2] • Protective pads used (elbows, knees, shins, etc.) [3] • Reflective clothing [4] • Lighting [5] • Other [77] • Unknown [88] 	<SAFE_EQUIP> enumNMSAF	N/A
N-43	Safety Equipment Used Other	N	N	50	All		<SAFE_EQUIP_OTH>	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML
N-44	Bike Lane / Path	N	N			Max. values allowed = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • No Bikeway [1] • Bicycle Route (signed) [2] • Bicycle Lane (striped) - right only [3] • Bicycle Lane (striped) - both sides [4] • Bicycle Lane (striped) - left only [5] • Separate Bicycle Path/Trail [6] • Other [77] • Unknown [88] 	<BIKEWAY> enumBIKE	N/A
N-45	Bike Lane / Path Other		N			Not stored in NCATS crash record		
N-46	Vehicle(s) Striking Non-Motorist	N	N		0 – 9	Max. values allowed = 3	<VEH_NUM_STRIKING>	N/A
N-47	Non-Motorist Speed Estimate (Low)	N	N		0 – 9		<EST_SPEED_LOW>	N/A
N-48	Non-Motorist Speed Estimate (High)	N	N		0 – 9		<EST_SPEED_HIGH>	N/A
N-49	Non-Motorist Speed Estimate (Posted)	N	N		0 – 9	Valid Form 5 Attributes / NCATS Codes: Same as Posted Speed (V-83)	<POSTED_SPEED> enumPSDC	N/A
N-50	NRS/CFR/CC/MC/Pending		N			Not stored in NCATS crash record		
N-51	Violation		N			Not stored in NCATS crash record		
N-52	NOC		N			Not stored in NCATS crash record		
N-53	Citation Number	N	N	20	A – Z 0 – 9 [–]	Max. values allowed = 2	<CITATION_NUM>	N/A
N-54	Non-Motor Vehicle Make / Manufacturer	N	N	45	All		<NMV_MAKE>	N/A
N-55	Non-Motor Vehicle Model	N	N	50	All		<NMV_MODEL>	N/A
N-56	Non-Motor Vehicle Type		N			Not stored in NCATS		
N-57	Non-Motor Vehicle Color	N	N			Valid Form 5 Attributes / NCATS Codes: Same as Vehicle Color (V-53)	<NMV_COLOR>	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML
N-58	Non-Motor Vehicle Identification	N	N	30	All		<NMV_ID_NUMBER>	N/A
N-59	Non-Motor Vehicle Removed By	N	N	50	All		<REMOVED_BY>	N/A
N-60	Non-Motor Vehicle Removed To	N	N	50	All		<REMOVED_TO>	N/A
N-61	Non-Motor Vehicle Owner Same as Non-Motorist	N	N			Not stored in NCATS crash record		
N-62	Non-Motor Vehicle Owner Last Name	N	N	30	A – Z 0 – 9 [–]		<LAST_NAME>	N/A
N-63	Non-Motor Vehicle Owner First Name	N	N	20	A – Z 0 – 9 [–]		<FIRST_NAME>	N/A
N-64	Non-Motor Vehicle Owner Middle Name	N	N	20	A – Z 0 – 9 [–]		<MIDDLE_NAME>	N/A
N-65	Non-Motor Vehicle Owner Address	N	N	100	All		<ST_ADDR>	N/A
N-66	Non-Motor Vehicle Owner City	N	N	50	All		<CITY>	N/A
N-67	Non-Motor Vehicle Owner State	N	N	2	A – Z		<STATE>	N/A
N-68	Non-Motor Vehicle Owner ZIP	N	N	11	0 – 9 [–]		<ZIP>	N/A
N-69	First Contact Area	N	N			Max. values = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Front [1] • Right Front [2] • Right Side [3] • Right Rear [4] • Rear [5] • Left Rear [6] • Left Side [7] • Left Front [8] • Head / Feet [9] • Unknown [88] 	<FST_CONTACT> enumPOIMC	N/A

NCATS Database Requirements

ID	Field Name	Required	PDO	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML
N-70	Damage to Non-Motor Vehicle	N	N			Max. values = 1 Valid Form 5 Attributes / NCATS Codes: Same as Extent of Damage (V-84)	<EXTENT_DAMAGE> enumDMGE	N/A
N-71	Non-Motor Vehicle Damage Areas	N	N			Max. values = 20 Valid Form 5 Attributes / NCATS Codes: Same as Damaged Areas (V-76)	<DAMAGE_AREA> enumDAMG	N/A
N-72	Non-Motorist Suffix Name	N	N	5	A – Z		<SUFFIX_NAME>	N/A
N-73	Sequence of Events	N	N			Valid Form 5 Attributes / NCATS Codes: See Sequence of Events (V-85)	<SEQ_OF_EVENT> enumSQEVNT	N/A
N-74	Most Harmful Event	N	N			Valid Form 5 Attributes / NCATS Codes: See Sequence of Events (V-85)	<MOST_HARM_EVENT> enumSQEVNT	N/A
N-75	Non-Motor Vehicle Action	N	N			Max. values = 1 Valid Form 5 Attributes / NCATS Codes: <ul style="list-style-type: none"> • Straight [1] • Stopped [2] • Left Turn [3] • Right Turn [4] • U-Turn [5] • Passing [6] • Entering Lane [7] • Leaving Lane [8] • Lane Change [9] • Other [77] • Unknown [88] 	<VEH_ACTION> enumNMVA	N/A

Derived / Static XML Elements

ID	Description	Required	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
D-1	Origination Agency Identifier (ORI)	N	9	A – Z 0 – 9	This field is the Originating Agency ID Number and will be used to identify the agency sending the record.	<ACC_ORI>	N/A
D-2	Agency Code	Y	4		This indicates the agency to which the investigating officer belongs.	<OFR_AGY_CODE> Enumeration: TBD	N/A

NCATS Database Requirements

ID	Description	Required	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
					<p>Valid NCATS Codes:</p> <ul style="list-style-type: none"> • Boulder City PD [BCPD] • Bureau of Land Mgmt. [BLM] • Carlin PD [CRPD] • Carson City SO [CCSO] • Clark County School District PD [CLSD] • Churchill County SO [CHSO] • Community College of Southern Nevada [CCSN] • Douglas County SO [DCSO] • Elko PD [ELPD] • Elko County SO [ELSO] • Esmeralda County SO [ESSO] • Eureka County SO [EUSO] • Fallon PD [FAPD] • Henderson PD [HP] • Humboldt County SO [HUSO] • Lander County SO [LASO] • Las Vegas Metropolitan PD [LVM] • Lincoln County SO [LISO] • Lovelock PD [LOPD] • Lyon County SO [LYSO] • Mineral County SO [MISO] • Mesquite PD [MSPD] • Nevada Highway Patrol [NHP] • North Las Vegas PD [NLPD] • Nye County SO [NYSO] • Other Agency [OTHR] • Pershing County SO [PESO] • Pyramid Lake Tribal PD [PDTP] • Reno PD [RPD] • Sparks PD [SPPD] • Storey County SO [STSO] • Truckee Meadows Community College [TMCC] • U.S. Forest Service [USFS] • U.S. Lake Mead N.P. [LMNP] • U.S. Great Basin N.P. [GBNP] • Univ. Nevada Las Vegas [UNLV] • Univ. Nevada Reno [UNR] • Washoe County School District PD [WASD] 		

NCATS Database Requirements

ID	Description	Required	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
					<ul style="list-style-type: none"> Washoe County SO [WASO] Winnemucca PD [WNPDP] White Pine County SO [WPSO] West Wendover PD [WWPD] Yerington Paiute Tribal PD [YETP] Yerington PD [YEPD] 		
D-3	Electronic Accident	N			<p>This flag indicates whether the accident report was done electronically.</p> <p>Valid NCATS Codes:</p> <ul style="list-style-type: none"> Yes [Y] No [N] 	<E_ACCIDENT> enumLOGICAL	[N]
D-4	Extraction	N			<p>This field indicates whether extrication was required with the accident. If any occupant has a Trapped code (V-39, N-30) of 1, this flag must be set to 'Y'.</p> <p>Valid NCATS Codes:</p> <ul style="list-style-type: none"> Yes [Y] No [N] 	<EXTRACTION> enumLOGICAL	[N]
D-5	Crash Day	Y			<p>This field indicates the day of the week on which the accident occurred.</p> <p>Valid NCATS Codes:</p> <ul style="list-style-type: none"> Sunday [1] Monday [2] Tuesday [3] Wednesday [4] Thursday [5] Friday [6] Saturday [7] 	<CRASH_DAY> enumDAYC	N/A
D-6	Cited	N			<p>This field indicates whether a citation was issued as a result of the crash.</p> <p>Valid NCATS Codes:</p> <ul style="list-style-type: none"> Yes [Y] No [N] 	<CITED> enumLOGICAL	[N]

NCATS Database Requirements

ID	Description	Required	Max. Length	Valid Chars.	Notes	NCATS XML Tag / Enumeration	Default XML Value
D-7	Location On/Off Roadway	N			This is the location on or off the roadway where the accident occurred. If 'Off-road' is the selected attribute in the Highway Description field (S-54), this flag is set to 'Y'. Valid NCATS Codes: <ul style="list-style-type: none"> • Yes [Y] • No [N] 	<LOC_ON_OFF_RDWY>	[N]
D-8	Total Road Width	N		0 – 9 [.]	This field is the sum of the following: Travel Lane Width S-43 Storage/Turn Lane Width S-44 Median Width S-45 Highway Shoulder Width Left S-46 Highway Shoulder Width Rt. S-47	<TOTAL_RD_WIDTH>	N/A
D-9	Age	N		0 – 9	This field stores the age of the driver/occupant/non-motorist at the time of the crash. It is calculated by subtracting the DOB (V-17, N-17) from the collision date (S-9).	<AGE>	N/A
D-10	DOB Unknown	N			If a person's DOB is unknown, this flag is set to 'Y'. Valid NCATS Codes: <ul style="list-style-type: none"> • Yes [Y] • No [N] 	<DOB_UNK> enumLOGICAL	[N]
D-11	NCATS Crash ID	Y	40	A – Z 0 – 9	This field uniquely identifies a collision in the source database and NCATS	<NCATS_CRASH_ID>	
D-12	Agency Accident Number	Y	50	All	This field stores the accident number as it was stored in the originating database.	<AGENCY_ACCIDENT_NUM>	