

Data Element

Name IM-Age
Identifier imdd 5
Purpose The age of a person. Units are years.

Usage

DRAFT

Definition UBYTE

Data Element

<i>Name</i>	IM-CareFacilityName
<i>Identifier</i>	imdd 6
<i>Purpose</i>	The name of a care facility such as a hospital, or a trauma center.

Usage

DRAFT

<i>Definition</i>	NAME20 (SIZE (1..20))
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Data Element

<i>Name</i>	IM-CareFacilityPhone
<i>Identifier</i>	imdd 7
<i>Purpose</i>	The telephone number of a care facility.

Usage

DRAFT

Definition TELEPHONE

Data Element

Name IM-ConfidenceLevel

Identifier imdd 10

Purpose The level of confidence in the accuracy of the incident information provided, defined as the probability (almost always subjective probability) that the incident information is correct. Some users and applications may want a more natural-language expression of confidence and, in any case, it would be quite rare for a numerical probability value to be appropriate for actual calculations.

Usage

DRAFT

Definition NAME10

Data Element

<i>Name</i>	IM-CurrentStatus
<i>Identifier</i>	imdd 11
<i>Purpose</i>	The current status of an emergency response vehicle or team.

Usage

DRAFT

Definition

```
ENUMERATED
IM-CurrentStatus ::= INTEGER available (1), -- Available
responding (2), -- Responding to incident
returning (3), -- Returning from an incident
maintenance (4) -- In maintenance
-- 5-149 Reserved for standard codes
-- 150-255 Reserved for Local Use
... -- # LOCAL_CONTENT
}
```

Data Element

<i>Name</i>	IM-DetourType
<i>Identifier</i>	imdd 14
<i>Purpose</i>	Identifies the type of detour.

Usage

DRAFT

Definition

```

ENUMERATED
{
ad-hoc    (1), -- response to an incident, a detour is defined in -- real time as the need arises
canned    (2), -- response to an incident, a pre-specified detour is -- used
short-term (3), -- need for detour known in advance, detour is
-- incorporated into operator/vehicle assignments,
-- itinerary planning
long-term  (4) -- advance to cover an entire need for detour known in
-- schedule/pick period, detour is incorporated in
-- the schedule and pick
-- 5-149 (reserved for standard codes)
-- 150-255 (reserved for local use)
... -- # LOCAL_CONTENT
}

```

Data Element

<i>Name</i>	IM-DispatchDateTime
<i>Identifier</i>	imdd 15
<i>Purpose</i>	The date and time a specific dispatch order has been delivered.

Usage

DRAFT

<i>Definition</i>	DATETIME
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Data Element

<i>Name</i>	IM-DispatcherID
<i>Identifier</i>	imdd 16
<i>Purpose</i>	The identification number of the dispatcher (transit or non-transit) giving the dispatch order.

Usage

DRAFT

<i>Definition</i>	ULONG
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Data Element

<i>Name</i>	IM-EmployeeFunction
<i>Identifier</i>	imdd 18
<i>Purpose</i>	Employee function, such as supervisor, driver, etc. This covers response organization employees as well as transit employees.

<i>Usage</i>	1 Command
	2 Safety
	3 Information
	4 Liaison
	5 Operations
	6 Staging
	7 Branch
	8 Division
	9 Strike Team
	10 Company
	11 Task Force
	12 Group
	13 Planning
	14 Resource Unit
	15 Situation Unit
	16 Documentation Unit
	17 Demobilization Unit
	18 Technical Specialist
	19 Logistics
	20 Service Branch
	21 Communications Unit
	22 Medical Unit
	23 Rehabilitation
	24 Food Unit
	25 Support Branch
	26 Supply Unit
	27 Facilities Unit
	28 Ground Support Unit
	29 Finance/Administration
	30 Time Unit
	31 Procurement Unit
	32 Compensations Claims Unit
	33 Cost Unit
	34 Transit: full time operator
	35 Transit: part time operator
	36 Transit: conductor
	37 Transit: engineer
	38 Transit: maintenance
	39 Transit: supervisor/manager
	40 Transit: revenue collector
	41 Transit: dispatcher
	42-149 (reserved for standard codes)
	150-255 (reserved for local use)

Data Element

```

{
command (1), -- command
safety (2), -- safety
information (3), -- information
liaison (4), -- liaison
operations (5), -- operations
staging (6), -- staging
branch (7), -- branch
division (8), -- division
strike-team (9), -- strike team
company (10), -- company
task-force (11), -- task force
group (12), -- group
planning (13), -- planning
resource-unit (14), -- resource unit
situation-unit (15), -- situation unit
documentation-unit (16), -- documentation unit
demobilization (17), -- demobilization unit
technical-specialist (18), -- technical specialist
logistics (19), -- logistics
service-branch (20), -- service branch
communications (21), -- communications unit
medical-unit (22), -- medical unit
rehabilitation (23), -- rehabilitation
food-unit (24), -- food unit
support-branch (25), -- support branch
supply-unit (26), -- supply unit
facilities-unit (27), -- facilities unit
ground-support-unit (28), -- ground support unit
administration (29), -- finance/administration
time-unit (30), -- time unit
procurement-unit (31), -- procurement unit
claims-unit (32), -- compensations claims unit
cost-unit (33), -- cost unit
transit-ft-operator (34), -- Transit: full time operator
transit-pt-operator (35), -- Transit: part time operator
transit-conductor (36), -- Transit: conductor
transit-engineer (37), -- Transit: engineer
transit-maintenance (38), -- Transit: maintenance
transit-supervisor (39), -- Transit: supervisor/ manager
transit-revenue-collector (40), -- Transit: revenue collector
transit-dispatcher (41) -- Transit: dispatcher
  -- 42-149 (reserved for standard codes)
  -- 150-255 (reserved for local use)
}

```

Data Element

Name IM-EmployeeIDSource

Identifier imdd 19

Purpose The employee identification number of the employee (transit or non-transit) who has observed and reported an event where manual intervention is possible. The ID is assigned by the agency.

Usage 0= not known

DRAFT

Definition IDENL

Data Element

Name IM-EmployeeIDSystem
Identifier imdd 20
Purpose The employee identification number of the employee (transit or non-transit) entering the event into the system, where manual intervention is required. The ID is assigned by the agency.

Usage 0= not known

DRAFT

Definition IDENL

Data Element

<i>Name</i>	IM-EstimatedIncidentClearDateTime
<i>Identifier</i>	imdd 21
<i>Purpose</i>	The estimated date and time that an incident will be cleared.

Usage

DRAFT

<i>Definition</i>	DATETIME
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Data Element

<i>Name</i>	IM-ETA
<i>Identifier</i>	imdd 22
<i>Purpose</i>	The date and time a response vehicle estimates it will arrive at the incident scene.

Usage

DRAFT

<i>Definition</i>	DATETIME
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Data Element

<i>Name</i>	IM-EventDateTimeSource
<i>Identifier</i>	imdd 23
<i>Purpose</i>	The date and time an event is detected by the source.

Usage

DRAFT

<i>Definition</i>	DATETIME
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Data Element

<i>Name</i>	IM-EventDateTimeSystem
<i>Identifier</i>	imdd 24
<i>Purpose</i>	The date and time that event information is received by the incident management system.

Usage

DRAFT

<i>Definition</i>	DATETIME
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Data Element

Name IM-EventIDSource

Identifier imdd 25

Purpose A unique event identification number generated by the source device which corresponds to an event. It is assumed (and could be written in guidance) that the application will rollover EventID once per day, or at least once per month, so that the ID remains unique over the life of the IM system.

Usage

DRAFT

Definition IDENS

Data Element

Name IM-EventIDSystem

Identifier imdd 26

Purpose A unique event identification number generated by the receiving system. It is assumed (and could be written guidance) that the application will rollover EventID once per day, or at least once per month, so the ID remains unique over the life of the IM system.

Usage

DRAFT

Definition USHORT

Data Element

<i>Name</i>	IM-FacilityStatus
<i>Identifier</i>	imdd 32
<i>Purpose</i>	The status of a transit facility whether it is currently operational or not.

Usage

DRAFT

Definition

```
ENUMERATED
{
operational (1), -- Operational
non-operational (2) -- Non-operational
-- 3-149 Reserved for standard codes
-- 150-255 Reserved for Local Use
... -- # LOCAL_CONTENT
}
```

Data Element

<i>Name</i>	IM-HomePhone
<i>Identifier</i>	imdd 33
<i>Purpose</i>	The home telephone number of a person.

Usage

DRAFT

<i>Definition</i>	TELEPHONE
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Data Element

Name IM-HumanFatalityCount
Identifier imdd 34
Purpose The number of fatalities present at an incident.

Usage 65,535 indicates 65,535 human fatalities or more

DRAFT

Definition USHORT

Data Element

Name IM-HumanInjuryCount
Identifier imdd 35
Purpose The number of injured persons present at an incident.

Usage 65,535 indicates 65,535 injuries or more

DRAFT

Definition USHORT

Data Element

<i>Name</i>	IM-IncidentDescLong
<i>Identifier</i>	imdd 36
<i>Purpose</i>	The long version of the textual description of an incident.

Usage

DRAFT

<i>Definition</i>	TEXTLONG
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Data Element

<i>Name</i>	IM-IncidentDescShort
<i>Identifier</i>	imdd 37
<i>Purpose</i>	The short version of the textual description of an incident.

Usage

DRAFT

<i>Definition</i>	FOOTNOTE
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Data Element

Name IM-IncidentID

Identifier imdd 38

Purpose The unique identification name or number of an incident. It is assumed (and could be written in guidance) that the application will rollover IncidentID once per day, or at least once per month, so that the ID remains unique over the life of the IM system.

Usage

DRAFT

Definition IDENS

Data Element

<i>Name</i>	IM-IncidentProcedure
<i>Identifier</i>	imdd 39
<i>Purpose</i>	The procedure of addressing a specific type of incident.

Usage

DRAFT

<i>Definition</i>	TEXTLONG
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Data Element

<i>Name</i>	IM-IncidentStatus
<i>Identifier</i>	imdd 41
<i>Purpose</i>	A code which indicates a status of the incident.

Usage

DRAFT

Definition

```
ENUMERATED
{
  reported-not-verified (1), -- Reported, not verified
  verified-no-response-yet (2), -- Verified, no response applied
  verified-response-enroute (3), -- Verified, response en route
  verified-response-on-scene (4), -- Verified, response on scene
  responding (5), -- Being responded to
  cleared (6) -- Cleared
  -- 7-149 Reserved for standard codes
  -- 150-255 Reserved for Local Use
  ... -- # LOCAL_CONTENT
}
```

Data Element

Name	IM-IncidentSubtype
Identifier	imdd 42
Purpose	A code which further classifies the incident as a modifier to imIncidentType. This code may also be used to classify an event (i.e. description of a potential, unverified incident by an observer).

Usage

DRAFT

Definition

ENUMERATED

```
{
  accident (1), -- Accident
  ptv-agency (2), -- Agency's own public transit vehicle
  assault-driver (3), -- Assault on driver
  assault-passenger (4), -- Assault on passenger
  auto (5), -- Automobile
  bike (6), -- Bicycle
  bridge-up (7), -- Bridge up
  broken-seat (8), -- Broken seat
  bus-alarm (9), -- Bus alarm
  congestion (10), -- Congestion
  construction (11), -- Construction
  crime-drug-deal (12), -- Crime-drug deal
  crime-fight (13), -- Crime-fight/altercation
  crime-harassment (14), -- Crime-harassment
  crime-other (15), -- Crime-other
  crime-robbery (16), -- Crime-robbery
  debris (17), -- Debris
  delay (18), -- Delay
  eating (19), -- Eating
  equip-air-conditioning (20), -- Equipment - air conditioning
  equip-air-system (21), -- Equipment - air system
  equip-brakes (22), -- Equipment - brakes
  equip-chassis (23), -- Equipment - chassis/suspension
  equip-cooling (24), -- Equipment - cooling system
  equip-doors (25), -- Equipment - doors
  equip-electrical (26), -- Equipment - electrical
  equip-engine (27), -- Equipment - engine
  equip-exterior (28), -- Equipment - exterior/body
  equip-fc (29), -- Equipment - fare collection
  equip-fuel (30), -- Equipment - fuel/exhaust
  equip-horn (31), -- Equipment - horn
  equip-interior (32), -- Equipment - interior
  equip-lift (33), -- Equipment - lift/kneeling
  equip-lights (34), -- Equipment - lights
  equip-lubrication (35), -- Equipment - lubrication
  equip-communications (36), -- Equipment - radio/communication
  equip-signs (37), -- Equipment - signs
  equip-steering (38), -- Equipment - steering
  equip-tires (39), -- Equipment - tires/wheels
  equip-transmission (40), -- Equipment - transmission
  equip-unknown-alarm (41), -- Equipment - unknown alarm
}
```

Data Element

equip-wipers (42), -- Equipment - wipers
 etch-glass (43), -- Etch glass
 fare-dispute-expired-pass (44), -- Fare dispute-expired pass
 fare-dispute-expired-transfer (45), -- Fare dispute-expired transfer
 fare-dispute-no-charge (46), -- Fare dispute-no charge
 fare-dispute-other (47), -- Fare dispute-other
 fare-dispute-refuses-pay (48), -- Fare dispute-refuses to pay
 fight (49), -- Fight/altercation
 fire (50), -- Fire
 fixed-object (51), -- Fixed object
 fog (52), -- Fog
 found-article (53), -- Found article
 gang-fight (54), -- Gang fight
 harassment (55), -- Harassment
 headway-no-follower (56), -- Headway-no follower
 headway-no-leader (57), -- Headway-no leader
 ice (58), -- Ice
 intoxication (59), -- Intoxication
 invalid-movement (60), -- Invalid movement
 injuries (61), -- Involves injuries
 lift-passenger-cycle-completed (62), -- Lift passenger-cycle completed
 lift-passenger-alight (63), -- Lift passenger-ready to alight
 lift-passenger-board (64), -- Lift passenger-ready to board
 lost-article (65), -- Lost article
 motorcycle (66), -- Motorcycle/moped
 no-driver (67), -- No driver/operator
 no-injuries (68), -- No injuries involved
 no-PTV (69), -- No public transit vehicle
 noise (70), -- Noise
 object (71), -- Object
 objects-thrown (72), -- Objects thrown
 observed-accident-auto (73), -- Observed accident-automobile
 observed-accident-bike (74), -- Observed accident-bicycle
 observed-accident-other-PTV (75), -- Obs. Accident-PTV, not own agency's
 observed-accident-fixed-object (76), -- Observed accident-fixed object
 observed-accident-motorcycle (77), -- Observed accident-motorcycle
 observed-accident-other (78), -- Observed accident-other
 observed-accident-pedestrian (79), -- Observed accident-pedestrian
 observed-accident-truck (80), -- Observed accident-truck
 petro-on-street (81), -- Oil/gas on street
 other (82), -- Other
 passenger-accident-alighting (83), -- Passenger accident alighting

Data Element

```

passenger-accident-boarding (84), -- Passenger accident boarding
passenger-accident-on-board (85), -- Passenger accident fallen on-board
passenger-load (86), -- Passenger load
passenger-accident-other (87), -- Passenger accident other
passenger-sick-or-injured (88), -- Passenger sick/injured
pedestrian (89), -- Pedestrian
pickpocket (90), -- Pickpocket
police (91), -- Police
row-defect-gas-pipe (92), -- Right of Way Defect-gas pipe
row-defect-other (93), -- Right of Way Defect-other
row-defect-street-light (94), -- Right of Way Defect-street light
row-defect-traffic-signal (95), -- ROW Defect-traffic light
row-defect-water-pipe (96), -- Right of Way Defect-water pipe
row-defect-wires (97), -- Right of Way Defect-wires
severe-weather (98), -- Severe weather
person-sick-or-injured (99), -- Sick/injured person
sleeper (100), -- Sleeper
smoking (101), -- Smoking
snowing (102), -- Snow
theft (103), -- Theft
service-theft (104), -- Theft of service
train (105), -- Train
truck (106), -- Truck
passenger-unruly (107), -- Unruly Passenger
vandalism (108), -- Vandalism/Graffiti
waiting-for-break (109), -- Waiting to get relief for schedule break.
Waiting-for-run-finished (110), -- Waiting to get relief, run finished
waiting-to-provide-relief (111), -- Waiting to provide relief.
Flooding (112) -- Water/flooding
--113-200 reserved for std codes --201-255 reserved for local use
... -- # LOCAL_CONTENT
}

```

Data Element

Name	IM-IncidentType
Identifier	imdd 43
Purpose	The type of an incident. This code may also be used to classify an event (i.e. description of a potential, unverified incident by an observer).

Usage

DRAFT

Definition

```

ENUMERATED
{
  accident (1), -- Accident
  construction (2), -- Construction
  crime (3), -- Crime
  disturbance (4), -- Disturbance
  equipment-problem (5), -- Equipment problem
  fatality (6), -- Fatality
  fire (7), -- Fire
  heavy-traffic (8), -- Heavy traffic volume
  injury (9), -- Injury
  medical-emergency (10), -- Medical emergency
  observed-incident (11), -- Observed incident (does not involve a PTV)
  passenger-volume (12), -- Passenger Volume
  relief (13), -- Relief
  service-delay (14), -- Service delay
  silent-alarm (15), -- Silent alarm
  street-blockage (16), -- Street blockage
  signal-failure (17), -- Traffic signal failure
  ptv-in-water (18) -- Transit vehicle in water
  -- 19-149 Reserved for standard codes
  -- 150-255 Reserved for Local Use
  ... -- # LOCAL_CONTENT
}

```

Data Element

<i>Name</i>	IM-InjuryNature
<i>Identifier</i>	imdd 44
<i>Purpose</i>	The nature of the injury to a person involved in an incident.

Usage

DRAFT

<i>Definition</i>	FOOTNOTE
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Data Element

<i>Name</i>	IM-ITISCode
<i>Identifier</i>	imdd 87
<i>Purpose</i>	Convey a code for a phrase related to an incident as defined by SAE J2540-2 IT IS Phrase List.

Usage

DRAFT

<i>Definition</i>	USHORT
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Data Element

<i>Name</i>	IM-NotificationDateTime
<i>Identifier</i>	imdd 50
<i>Purpose</i>	The date and time a specific notification has been delivered.

Usage

DRAFT

<i>Definition</i>	DATETIME
--------------------------	----------

Data Element

<i>Name</i>	IM-NotificationText
<i>Identifier</i>	imdd 51
<i>Purpose</i>	Text notifying the response personnel or agency of the incident.

Usage

DRAFT

<i>Definition</i>	TEXTLONG
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Data Element

<i>Name</i>	IM-OperatorInjured
<i>Identifier</i>	imdd 52
<i>Purpose</i>	A flag indicating whether or not an operator is injured.

Usage

DRAFT

<i>Definition</i>	ENUMERATED { no (0), -- No yes (1) -- Yes -- 2-255 Reserved for Local Use ... -- # LOCAL_CONTENT }
--------------------------	--

Data Element

<i>Name</i>	IM-OtherVehicleInvolvedID
<i>Identifier</i>	imdd 53
<i>Purpose</i>	A unique number identifying non-transit vehicles involved in an accident. This number assigned by the Incident Management System.

Usage

DRAFT

<i>Definition</i>	IDENS
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Data Element

<i>Name</i>	IM-PersonIdentifier
<i>Identifier</i>	imdd 54
<i>Purpose</i>	A number or name of a person.

Usage

DRAFT

<i>Definition</i>	NAME30
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Data Element

Name IM-PostAccidentTest

Identifier imdd 55

Purpose The post-accident impairment test(s) that are required following an incident type.

Usage

DRAFT

Definition FOOTNOTE

Data Element

<i>Name</i>	IM-PropertyDamageDescShort
<i>Identifier</i>	imdd 57
<i>Purpose</i>	A short description of the property damage resulting from the incident.

Usage

DRAFT

<i>Definition</i>	FOOTNOTE
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Data Element

Name IM-ResponseAgencyID

Identifier imdd 58

Purpose An identifying code or name for a specific agency that may respond to an incident. The first 2 characters are a code for the type of agency and consequently, for the identifier. The last 18 characters are the identifiers for the Incident Management response agency. If the agency ID is smaller than 19 characters, it is shifted to the most significant character after the 2 character code. The ID must be a valid identifier assigned by the designated response agency.

Usage

DRAFT

Definition NAME20

Data Element

<i>Name</i>	IM-ResponseCommands
<i>Identifier</i>	imdd 59
<i>Purpose</i>	Commands transmitted to a response unit regarding what actions it should take to respond to the incident.

Usage

DRAFT

Definition

```
ENUMERATED
{
  verify (1), -- Travel to scene to verify a reported incident
  resolve (2), -- Travel to scene to resolve/clear the incident
  recall (3), -- Cancel/recall (return from incident scene)
  adjust-service (4), -- Adjust service in response to the incident
  reroute (5) -- Reroute traffic around incident scene
    -- 6-255 Reserved for Local Use
  ... -- # LOCAL_CONTENT
}
```

Data Element

Name IM-ResponseEmployeeID

Identifier imdd 60

Purpose The identification number of an individual public safety employee (transit or non-transit). This is not the same as CptEmployeeID, although CptEmployeeID could be used to designate transit employees involved in an incident response.

Usage 0= not known

DRAFT

Definition IDENL

Data Element

<i>Name</i>	IM-ResponseUnitID
<i>Identifier</i>	imdd 62
<i>Purpose</i>	Identification number of a vehicle (transit or non-transit).

Usage

DRAFT

<i>Definition</i>	IDENL
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Data Element

Name	IM-ResponseUnitType
Identifier	imdd 61
Purpose	The type of response vehicle dispatched to an incident.

Usage

DRAFT

Definition

```

ENUMERATED
{
  ptv-agency (1), -- Transit vehicle of property
  ptv-other-agency (2), -- Transit vehicle of another property
  police (3), -- Transit Police
  supervisor (4), -- Transit Supervisor
  repair (5), -- Transit Repair Vehicle
  tow-truck (6), -- Transit Tow Truck
  track-repair (7), -- Track Repair Vehicle
  overhead-wire-repair (8), -- Overhead Wire Repair Vehicle
  other-repair (9), -- Other Repair Vehicle
  emt-chief (10), -- Emergency Medical Service Chief
  advanced-life-support (11), -- Advanced Life Support
  basic-life-support (12), -- Basic Life Support
  quick-response-unit (13), -- Quick Response Unit
  first-responder (14), -- First Responder
  medical-evacuation (15), -- Medical Evacuation
  other-medical-service (16), -- Other Medical Service
  police-supervisor (17), -- Supervisor-Police
  patrol-car (18), -- Patrol Car
  motorcycle (19), -- Motorcycle
  foot-patrol (20), -- Foot Patrol
  bicycle-patrol (21), -- Bicycle Patrol
  air-unit (22), -- Air Unit
  k-9 (23), -- K-9
  swat (24), -- SWAT
  hostage (25), -- Hostage
  bomb-squad (26), -- Bomb Squad
  detective (27), -- Detective
  medical-examiner (28), -- Coroner / Medical Examiner
  police-other (29), -- Police - Other
  suppression-chief (30), -- Suppression Chief
  engine (31), -- Engine / Plumber
  ladder (32), -- Ladder / Tower / Platform
  heavy-rescue (33), -- Heavy Rescue / Extrication
  brush (34), -- Brush / Off-Road
  hazmat (35), -- Hazardous Material
  tech-rescue (36), -- Technical Rescue
  foam-unit (37), -- Foam Unit
  investigator (38), -- Investigator / Fire Marshall
  inspector (39) -- Inspector
    -- 40-149 Reserved for standard use
    -- 150-255 Reserved for Local Use
  ... -- # LOCAL_CONTENT
}

```

Data Element

<i>Name</i>	IM-RestorationAction
<i>Identifier</i>	imdd 63
<i>Purpose</i>	A transit service restoration action ordered for an incident.

Usage

DRAFT

Definition

```

ENUMERATED
{
  notKnown (0), -- not known
  substitute-Pullout (1), -- Pull out veh. to substitute for veh. involved
  incident-Pull-In (2), -- Pull in the vehicle involved in the incident
  dispatch-shuttle (3), -- Dispatch buses to operate a shuttle service
  adjust-headways (4), -- Adjust service headways
  detour (5) -- Perform detours
    -- 6-149 Reserved for standard codes
    -- 150-255 Reserved for Local Use
  ... -- # LOCAL_CONTENT
}

```

Data Element

<i>Name</i>	IM-RoleInIncident
<i>Identifier</i>	imdd 64
<i>Purpose</i>	The role of a person in an incident.

Usage

DRAFT

Definition

```

ENUMERATED
{
  notKnown (0), -- not known
  fatality (1), -- Fatality
  injury (2), -- Injury
  witness (3), -- Witness
  driver (4), -- Driver
  transitEmployee (5), -- Employee of Transit Agency
  publicSafetyEmployee (6), -- Employee of Other Public Safety Agency
  report (7) -- Reporter
    -- 8-149 Reserved for standard codes
    -- 150-255 Reserved for Local Use
  ... -- # LOCAL_CONTENT
}

```

Data Element

<i>Name</i>	IM-SourceID
<i>Identifier</i>	imdd 66
<i>Purpose</i>	The unique identification number of the source device that detected an event.

Usage

DRAFT

<i>Definition</i>	IDENS
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Data Element

Name	IM-SourceType
Identifier	imdd 67
Purpose	The type of source that detected an event.

Usage

DRAFT

Definition

```

ENUMERATED
{
  vch    (1), -- Vehicle Control Head
  sa     (2), -- Silent Alarm
  file   (3), -- Fire
  smoke  (4), -- Smoke
  security (5), -- Security Alarm
  fareboxBreak (6), -- Farebox Break-in
  panic  (7), -- Panic Button
  heatDetector (8), -- Heat Detector
  leakDetector (9), -- Leak Detector
  offRouteDetector (10), -- Off-Route Detector
  mechanical (11), -- Mechanical
  accelerometer (12), -- Accelerometer
  trainedEmployee (13), -- Voice input from trained employee
  public (14), -- Voice input from public
  medicalAlarm (15) -- Medical alarm (e.g., dead man's switch)
    -- 16-149 Reserved for standard codes
    -- 150-255 Reserved for Local Use
  ... -- # LOCAL_CONTENT
}

```

Data Element

<i>Name</i>	IM-TimeOfArrival
<i>Identifier</i>	imdd 69
<i>Purpose</i>	The date and time a response vehicle actually arrives at an incident.

Usage

DRAFT

<i>Definition</i>	DATETIME
--------------------------	----------

Data Element

<i>Name</i>	IM-TransitImpacts
<i>Identifier</i>	imdd 71
<i>Purpose</i>	Expected impacts to transit (other than delays, see ImRouteDelay).

Usage

DRAFT

<i>Definition</i>	FOOTNOTE
--------------------------	----------

Data Element

Name IM-VehicleColor
Identifier imdd 72
Purpose The color of a vehicle.

Usage

DRAFT

Definition NAME20

Data Element

<i>Name</i>	IM-VehicleDamage
<i>Identifier</i>	imdd 73
<i>Purpose</i>	A description of the damage to a vehicle.

Usage

DRAFT

<i>Definition</i>	FOOTNOTE
--------------------------	----------

Data Element

<i>Name</i>	IM-VehicleDescription
<i>Identifier</i>	imdd 74
<i>Purpose</i>	A description of a vehicle.

Usage

DRAFT

<i>Definition</i>	FOOTNOTE
--------------------------	----------

Data Element

<i>Name</i>	IM-VehicleInvolvedCount
<i>Identifier</i>	imdd 75
<i>Purpose</i>	The total number of vehicles involved in an incident.

Usage

DRAFT

<i>Definition</i>	UBYTE
--------------------------	-------

Data Element

<i>Name</i>	IM-VehicleInvolvedType
<i>Identifier</i>	imdd 76
<i>Purpose</i>	A code list which indicates the types of vehicles involved in an incident.

Usage

DRAFT

Definition

```
ENUMERATED
{
  ptv (1), -- Public transit vehicle
  train (2), -- Train
  auto (3), -- Automobile
  truck (4), -- Truck
  motorbike (5), -- Motorbike
  bike (6) -- Bicycle
  -- 7-149 Reserved for standard codes
  -- 150-255 Reserved for Local Use
  ... -- # LOCAL_CONTENT
}
```


Data Element

Name IM-VehicleMake
Identifier imdd 77
Purpose The make of a vehicle.

Usage

DRAFT

Definition NAME20

Data Element

Name IM-VehicleModel
Identifier imdd 78
Purpose The model of a vehicle.

Usage

DRAFT

Definition NAME20

Data Element

Name IM-VehicleOccupantCount
Identifier imdd 79
Purpose The number of people in a vehicle involved in an accident.

Usage 255 indicates "255 or more occupants"

DRAFT

Definition UBYTE

Data Element

<i>Name</i>	IM-VehicleSpeed
<i>Identifier</i>	imdd 80
<i>Purpose</i>	The speed a vehicle was moving at the time of an incident.

Usage IEEE/ASTM SI IO-1997 [Kph] Units are in kilometers per hour. Resolution is tenths of a kilometer. For example, a speed of 75 KPH would be represented by 750.

DRAFT

Definition USHORT

Data Element

Name IM-VehicleState
Identifier imdd 81
Purpose The state in which a vehicle is registered.

Usage ANSI X3.38

DRAFT

Definition NAME2

Data Element

<i>Name</i>	IM-VehicleTag
<i>Identifier</i>	imdd 82
<i>Purpose</i>	The vehicle tag or license plate number.

Usage

DRAFT

<i>Definition</i>	NAME8
--------------------------	-------

Data Element

Name IM-VehicleYear
Identifier imdd 83
Purpose The model year of a vehicle.

Usage

DRAFT

Definition USHORT

Data Element

<i>Name</i>	IM-VerifiedDateTime
<i>Identifier</i>	imdd 84
<i>Purpose</i>	The date and time an incident is verified.

Usage

DRAFT

<i>Definition</i>	DATETIME
--------------------------	----------

Data Element

<i>Name</i>	IM-WitnessStatement
<i>Identifier</i>	imdd 85
<i>Purpose</i>	Text of witness describing (an aspect of) the incident.

Usage

DRAFT

<i>Definition</i>	LONG
--------------------------	------

Data Element

Name IM-WorkPhone

Identifier imdd 86

Purpose The telephone number where a person can be reached during normal business hours or during that person's work shift hours.

Usage

DRAFT

Definition TELEPHONE

Data Frame

<i>Name</i>	IMCareFacility
<i>Identifier</i>	im 18
<i>Purpose</i>	Contact information for a care facility including its address and telephone number.

Usage

DRAFT

Definition

```
SEQUENCE {  
  fac-name    IM-CareFacilityName,  
  address     LRMS.AddressPointProfile OPTIONAL,  
  landmark    SPLandmarkpoint        OPTIONAL,  
  fac-phone   IM-CareFacilityPhone  
}
```

Data Frame

Name	IMEventSource
Identifier	im 3
Purpose	An event generated by the detector of an event, and transmitted as a digital input from the field. The scope of this message is limited to VCH-and handheld-device-entered events. It does not accommodate calls from the public or input via discrete interfaces (dumb devices which offer no opportunity for passing along ID, date, time, etc.).

Usage

DRAFT

Definition

SEQUENCE {		
event-source-id	IM-EventIDSource	OPTIONAL,
source-type	IM-SourceType	OPTIONAL,
source-id	IM-SourceID,	
types	SEQUENCE (SIZE(1..15)) OF IM-IncidentType,	
subtypes	SEQUENCE (SIZE(1..15)) OF IM-IncidentSubtype	OPTIONAL,
itis-codes	SEQUENCE(SIZE(1..15)) OF IM-ITISCode	OPTIONAL,
incidentSeverity	CPT-SeverityLevel	OPTIONAL, --range (1..10)
event-desc-short	IM-IncidentDescShort	OPTIONAL,
comment	CPT-Footnote, --an update of the incident	
location	LRMS.GeoLocation	OPTIONAL,
source-dt	IM-EventDateTimeSource	OPTIONAL,
employee-source-id	IM-EmployeeIDSource	OPTIONAL,
ptv-id	CPT-VehicleID	OPTIONAL
}		

Data Frame

Name	IMIncident
Identifier	im 5
Purpose	A reported and verified anomaly in the system. This may encompass one or more observations from the field. An incident is managed as a single, discrete entity.

Usage

DRAFT

Definition

SEQUENCE{		
incident-id	IM-IncidentID,	
agency-id	CPT-AgencyID, --transit agency that is reporting the incident	
types	SEQUENCE (SIZE(1..15)) OF IM-IncidentType,	
subtypes	SEQUENCE (SIZE(1..15)) OF IM-IncidentSubtype	OPTIONAL,
itis-codes	SEQUENCE (SIZE(1..15)) OF IM-ITISCode	OPTIONAL,
event-desc-short	IM-IncidentDescShort	OPTIONAL, --use long or short form
event-desc-long	IM-IncidentDescLong	OPTIONAL, --use long or short form
verified-dt	IM-VerifiedDateTime,	
response-staff	SEQUENCE (SIZE(1..1000)) OF IM-ResponseEmployeeID	OPTIONAL,
location	SPLocationclass,	
severity	CPT-SeverityLevel	OPTIONAL,
priority	CPT-PriorityLevel	OPTIONAL,
assigned-by	CPT-EmployeeID	OPTIONAL, --who assigned priority
status	IM-IncidentStatus	OPTIONAL,
commander	IM-ResponseEmployeeID,	
event-system-id	SEQUENCE (SIZE(1..10)) OF IM-EventIDSystem, --(at least one)	
ptv-involved	SEQUENCE (SIZE(1..20)) OF IMPTVehicleInvolved	OPTIONAL,
other-veh-involved	SEQUENCE (SIZE(1..20)) OF IM-OtherVehicleInvolvedID	OPTIONAL,
transit-fac-id	SEQUENCE (SIZE(1..20)) OF CPT-TransitFacilityID	OPTIONAL,
injured-persons	SEQUENCE (SIZE(1..10)) OF IMInjury	OPTIONAL, --place where incident occurs
witnesses	SEQUENCE (SIZE(1..300)) OF IMWitness	OPTIONAL,
transit-impacts	SEQUENCE (SIZE(1..200)) OF IM-TransitImpacts	OPTIONAL,
units	SEQUENCE (SIZE(1..20)) OF IMResponseUnit	OPTIONAL,
personnel	SEQUENCE (SIZE(1..50)) OF IMResponsePerson	OPTIONAL,
dispatch-info	IMIncidentResponseDispatch	OPTIONAL

Data Frame

<i>Name</i>	IMIncidentInfo
<i>Identifier</i>	Im 1000
<i>Purpose</i>	Provide information about an incident to a transit agency employee.

Usage When the data block for an incident is initially transmitted to an employee, complete incident information is provided, based on availability. When this data block is used in an update message, detailed optional information is only included if it has changed.

Definition

```

SEQUENCE {
  incident          IM-IncidentID,
  subsumedIncidents SEQUENCE (SIZE(1..100)) OF IM-IncidentID  OPTIONAL,
  incidentDescription IMIncident                               OPTIONAL,
  trafficImpact     IMTrafficImpact                           OPTIONAL,
  incidentClosed    CPT-Boolean
}

```

Data Frame

Name	IMIncidentResponseDispatch
Identifier	im 15
Purpose	The information necessary to dispatch an emergency vehicle to respond to the incident and to monitor the incident's status.

Usage

DRAFT

Definition

```

SEQUENCE {
  incidentID          IM-IncidentID,
  status              IM-IncidentStatus          OPTIONAL,
  procedure           IM-IncidentProcedure       OPTIONAL,
  dispatcherID       IM-DispatcherID,
  response-agency    IM-ResponseAgencyID        OPTIONAL,
  dispatch-datetime  IM-DispatchDateTime,
  response-unit      SEQUENCE (SIZE(1..500)) OF IMResponseUnit  OPTIONAL,
  response-command   SEQUENCE (SIZE(1..100)) OF IM-ResponseCommands  OPTIONAL,
  restoration-action SEQUENCE (SIZE(1..100)) OF IM-RestorationAction  OPTIONAL,
  rendezvousLocation SPPointClass
  --rendezvous location for response unit and vehicle requiring service
}

```

Data Frame

Name	IMInjury
Identifier	im 11
Purpose	A person who was injured as a result of an incident.

Usage

DRAFT

Definition

```

SEQUENCE {
  incident-id      IM-IncidentID,
  injury-nature   IM-InjuryNature,
  person          IMPerson          OPTIONAL, --mandatory, if available
  reported-by     IMReportedBy,
  facility-name   IM-CareFacilityName OPTIONAL, -- facility caring for injured person
  locationAtIncident CHOICE
  {
    ptv IMPTVehicleInvolved, --person was on-board a PTV
    other-veh IMOtherVehicleInvolved, --person in another veh
    transit-fac CPT-TransitFacilityID, --person at transit fac
    geo-loc LRMS.GeoLocation --geographic location
  }
}

```


Data Frame

<i>Name</i>	IMInjuryInfo
<i>Identifier</i>	im 6
<i>Purpose</i>	Information related to injuries, fatalities or property damage caused by an incident.

Usage

DRAFT

Definition

```

SEQUENCE {
  fatality-count  IM-HumanFatalityCount,
  injury-count    IM-HumanInjuryCount,
  damage-desc     SEQUENCE (SIZE(1..100)) OF IM-PropertyDamageDescShort  OPTIONAL,
  footnote        CPT-Footernote                                           OPTIONAL
}

```

Data Frame

Name	IMOtherVehicleInvolved
Identifier	im 10
Purpose	A vehicle (other than a PTVehicle) involved in an incident tracked by the Transit Management Center.

Usage

DRAFT

Definition

```

SEQUENCE {
  other-veh      IM-OtherVehicleInvolvedID,
  veh-type      IM-VehicleInvolvedType,
  incidentID    IM-IncidentID,
  veh-info      IMVehicleIDInformation,
  heading       SP-CompassDirection, --vehicle heading
  speed         IM-VehicleSpeed,
  damage        IM-VehicleDamage          OPTIONAL,
  injury-info   IMInjuryInfo,
  operator      IMPerson                  OPTIONAL,
  passengers    SEQUENCE (SIZE(1..500)) OF IMPerson, --passengers in the vehicle
  veh-person-count IM-VehicleOccupantCount  OPTIONAL,
  post-acc-test IM-PostAccidentTest        OPTIONAL,
  footnote      CPT-Footer                OPTIONAL
}

```

Data Frame

<i>Name</i>	IMPerson
<i>Identifier</i>	im 7
<i>Purpose</i>	Information relating to a person involved in an incident. This may include injured persons and/or witnesses.

Usage

DRAFT

Definition

```

SEQUENCE{
personID      IM-PersonIdentifier      OPTIONAL,
role-in-incident SEQUENCE (SIZE(1..10)) OF IM-RoleInIncident,
injury        IMInjury                 OPTIONAL,
name          CPTPersonName,
address       LRMS.AddressPointProfile,
home-phone    IM-HomePhone,
work-phone    IM-WorkPhone             OPTIONAL,
gender        CPT-Sex                  OPTIONAL,
age           IM-Age                   OPTIONAL,
note          CPT-Footer                OPTIONAL
}

```

Data Frame

Name	IMPTVehicleInvolved
Identifier	im 9
Purpose	A public transit vehicle involved in an incident.

Usage

DRAFT

Definition

```

SEQUENCE {
  ptv                                CPT-VehicleID,
  incidentID                         IM-IncidentID,
  parameters                         IMPTVOperatingParam,
  operatorID                         CPT-OperatorID,
  operator-injured                   IM-OperatorInjured,
  post-accident-test                 IM-PostAccidentTest,
  injury-info                         IMInjuryInfo,
  passengers-onboard                 SEQUENCE (SIZE(1..500)) OF IMPerson  OPTIONAL,
  vehicle-damage                     IM-VehicleDamage  OPTIONAL,
  number-passengers-onboard          IM-VehicleOccupantCount  OPTIONAL,
  note                                CPT-Footnote  OPTIONAL
}

```

Data Frame

<i>Name</i>	IMPTVOperatingParam
<i>Identifier</i>	im 8
<i>Purpose</i>	The parameters describing vehicle operations prior to the incident, and current condition/status of the vehicle.

Usage

DRAFT

Definition

```
SEQUENCE {
  ptvID          CPT-VehicleID,
  velocity-vector OBBusVelocityVector, -- includes velocity, heading, pitch
  blockID       SCH-BlockID,
  runID         SCH-RunID              OPTIONAL,
  direction     SCH-RouteDirectionName OPTIONAL, --code
  base-name     CPT-PTVehicleBaseName OPTIONAL
}
```

Data Frame

<i>Name</i>	IMReportedBy
<i>Identifier</i>	im 17
<i>Purpose</i>	Person reporting an incident.

Usage

DRAFT

Definition

```
SEQUENCE {  
  response-org  IM-ResponseAgencyID,  
  person-id    IM-PersonIdentifier  
}
```

Data Frame

<i>Name</i>	IMResponsePerson
<i>Identifier</i>	im 19
<i>Purpose</i>	Information related to response person.

Usage

DRAFT

Definition

```
SEQUENCE {  
  response-agency      IM-ResponseAgencyID,  
  employee-functions SEQUENCE (SIZE(1..10)) OF IM-EmployeeFunction,  
  person-id           IM-PersonIdentifier  
}
```

Data Frame

Name	IMResponseUnit
Identifier	im 2
Purpose	Emergency response unit information, including vehicle status, identification and location information.

Usage

DRAFT

Definition

```

SEQUENCE{
  unit-type          IM-ResponseUnitType,
  response-agency    IM-ResponseAgencyID,
  response-id        IM-ResponseUnitID,
  eta                IM-ETA                                OPTIONAL, --specified when status =2 or =3
  arrival-time       IM-TimeOfArrival,
  current-status     IM-CurrentStatus,
  current-loc        LRMS.GeoLocation,
  response-route     LRMS.RouteLocation                    OPTIONAL, --Path to incident site or rendezvous point
  date-time          CPT-DateTime, --(Current time)
  dispatcher-id      IM-DispatcherID                       OPTIONAL,
  personnel          SEQUENCE (SIZE(1..50)) OF IMResponsePerson OPTIONAL, --crew
  responseUnitLeader IM-ResponseEmployeeID,
  responseUnitContact IM-ResponseEmployeeID                OPTIONAL,
  serviceData        CPT-Footnote                           OPTIONAL --Mandatory if PTV
}

```


Data Frame

<i>Name</i>	IMTrafficImpact
<i>Identifier</i>	im 13
<i>Purpose</i>	The impact of a traffic incident on throughput, including the expected impact and the expected duration of the impact.

Usage

DRAFT

Definition

```

SEQUENCE {
roads-affected      SEQUENCE (SIZE(1..100)) OF SPLineclass,
lane-blocked-count TMDD.Event-lanes-affected,
time-est-duration  TMDD.Event-timeline-estimated-duration,
clear-date-time    IM-EstimatedIncidentClearDateTime          OPTIONAL,
lane-status        SEQUENCE (SIZE(1..100)) OF TMDD.Link-status OPTIONAL
}

```

Data Frame

<i>Name</i>	IMVehicleIDInformation
<i>Identifier</i>	im 20
<i>Purpose</i>	Information to identify or describe a non-PTV vehicle involved in an incident. Every field is optional because a witness may have only limited information.

Usage

DRAFT

Definition

```
SEQUENCE {
  vin      CPT-VIN          OPTIONAL,
  tag      IM-VehicleTag    OPTIONAL, --License plate number
  state    IM-VehicleState  OPTIONAL,
  make     IM-VehicleMake   OPTIONAL,
  model    IM-VehicleModel  OPTIONAL,
  year     IM-VehicleYear   OPTIONAL,
  color    IM-VehicleColor  OPTIONAL,
  desc     IM-VehicleDescription OPTIONAL
}
```

Data Frame

<i>Name</i>	IMWitness
<i>Identifier</i>	im 12
<i>Purpose</i>	A person who saw the incident occur.

Usage

DRAFT

Definition

```
SEQUENCE {  
  incident-id  IM-IncidentID,  
  person      IMPerson,  
  witness-stmt  IM-WitnessStatement  OPTIONAL  
}
```

Message

Name	ImAlarmCancel
Identifier	Im 2002
Purpose	Sent from the vehicle computer to the dispatch computer to indicate that the vehicle operator has requested that the silent alarm be cancelled.

Usage

The notReally field indicated that the operator has cancelled the silent alarm under duress. Not all agencies will use this feature.

Definition

```
SEQUENCE {  
  vehicleID  
  timeRequested  
  notReally  
}
```

CPT-VehicleID,
CPT-DateTime,
CPT-Boolean OPTIONAL

Message

Name	ImCommandIncidentResponse
Identifier	IM 2012
Purpose	Direct a transit employee (responder) to go to an incident location.

Usage

The response-units field is a list of units directed to respond by this message.

Definition

```
SEQUENCE {
  commandID          CPT-CommandID,
  dispatch-time      CPT-DateTime,
  incident-info      IMIncident,
  response-units     SEQUENCE (SIZE(1..10)) OF IMResponseUnit
}
```

Message

Name	ImCommandIncidentResponseAck
Identifier	IM 2013
Purpose	Acknowledge a CcCommandIncidentResponse message.

Usage

The will-respond field indicates whether the employee agreed to respond to the command.

Definition

```

SEQUENCE {
  commandID          CPT-CommandID, -- from command msg
  dispatch-time      CPT-DateTime, --from command msg
  will-respond       CPT-Boolean,
  eta-time           CPT-DateTime          OPTIONAL
}

```

Message

Name	ImIncidentHistory
Identifier	Im 2011
Purpose	Provide one or more current or past incident reports in response to a query.

Usage Absence of an incident-reports field indicates no reports matched the query criteria.

Definition

```

SEQUENCE {
subscriptionInfo CPTSubscriptionHeader,
requester        CPT-EmployeeID,
routes           SEQUENCE (SIZE(1..500)) OF SCH-RouteID      OPTIONAL,
vicinity         LRMS.GeoLocation                            OPTIONAL,
radius           SP-DistanceInMeters                         OPTIONAL,
earliest         CPT-DateTime                                OPTIONAL,
latest          CPT-DateTime                                OPTIONAL,
incidents        SEQUENCE (SIZE(1..1000)) OF IM-IncidentID  OPTIONAL,
incident-reports SEQUENCE (SIZE(1..1000)) OF IMIncidentInfo OPTIONAL
}

```

Message

Name	ImIncidentHistorySub
Identifier	Im 2010
Purpose	Query for one or more current or past incident reports.

Usage

The routes, vicinity, radius, earliest, latests and incidents fields are used to specify the scope of the query. Each field that is present constrains the search in response to the query.

Definition

```

SEQUENCE {
subscriptionInfo CPTSubscriptionHeader,
requester        CPT-EmployeeID,
routes           SEQUENCE (SIZE(1..500)) OF SCH-RouteID      OPTIONAL,
vicinity        LRMS.GeoLocation                            OPTIONAL,
radius          SP-DistanceInMeters                        OPTIONAL,
earliest        CPT-DateTime                               OPTIONAL,
latest          CPT-DateTime                               OPTIONAL,
incidents       SEQUENCE (SIZE(1..1000)) OF IM-IncidentID  OPTIONAL
}

```


Message

Name	ImIncidentList
Identifier	Im 2009
Purpose	Provide incident information for a specified geographical area.

Usage

The routes, vicinity, garages, or specificIncident field is copied from the ImIncidentListSub message. IncidentInfo records are present for each active incident in the subscribed scope, however when this message is used to provide an update to a subscriber concerning a previously provided incident, only changed detail is included in the incidentInfoRecord, however an incidentInfo record for each open incident must be included.

Definition

```

SEQUENCE {
header          CPTSubscriptionHeader,
requester       CPT-EmployeeID,
radius          SP-DistanceInMeters                               OPTIONAL,
routes          SEQUENCE (SIZE(1..500)) OF SCH-RouteID           OPTIONAL,
vicinity        SPPointClass                                     OPTIONAL,
garages         SEQUENCE (SIZE(1..100)) OF CPT-TransitFacilityID  OPTIONAL,
specificIncident IM-IncidentID                                   OPTIONAL,
incidentInfo    SEQUENCE (SIZE(1..1000)) OF IMIncidentInfo
}
(WITH COMPONENTS{...routes PRESENT})
(WITH COMPONENTS {...vicinity PRESENT})
(WITH COMPONENTS {...garages PRESENT})
(WITH COMPONENTS {...specificIncident PRESENT})

```

Message

Name	ImIncidentListSub
Identifier	Im 2008
Purpose	Request incident information for a specified geographical area.

Usage

The requester field is used to identify the requesting employee, this may be needed to verify need-to-know. The scope of the incident(s) requested is defined by one of the fields routes, vicinity, garages, or specific incident. Radio is optionally used to specify the radios around vicinity.

Definition

```

SEQUENCE {
  header      CPTSubscriptionHeader,
  requester   CPT-EmployeeID,
  routes      SEQUENCE (SIZE(1..500)) OF SCH-RouteID      OPTIONAL,
  vicinity    SPPointClass                                OPTIONAL,
  garages     SEQUENCE (SIZE(1..100)) OF CPT-TransitFacilityID  OPTIONAL,
  specificIncident IM-IncidentID                          OPTIONAL,
}
(WITH COMPONENTS {...routes PRESENT})
(WITH COMPONENTS {...vicinity PRESENT})
(WITH COMPONENTS {...garages PRESENT})
(WITH COMPONENTS {...specificIncident PRESENT})

```

Message

Name	ImIncidentUpdate
Identifier	Im 2005
Purpose	Provide an incident update notification from an employee user device (e.g PDA, MDT) to the dispatch computer.

Usage

The originator field should identify the employee providing the update. Optional information should be included only if it has changed.

Definition

```

SEQUENCE {
  originator          CPT-EmployeeID,
  incidentID         IM-IncidentID,
  updateTime         CPT-DateTime,
  incidentInfo       IMIncident          OPTIONAL,
  trafficImpact      IMTrafficImpact     OPTIONAL,
  otherVehicles      SEQUENCE (SIZE(1..100)) OF IMOtherVehicleInvolved OPTIONAL,
  incidentClosed     CPT-Boolean
}

```

Message

Name ImInitialIncidentReport

Identifier Im 2004

Purpose Provide an initial report of an incident from a transit employee's user device to the dispatcher.

DRAFT

Usage

Definition

SEQUENCE {			
originator	CPT-EmployeeID,		
incidentInfo	IMIncident,		
trafficImpact	IMTrafficImpact		
otherVehicles	SEQUENCE (SIZE(1..100)) OF IMOtherVehicleInvolved	OPTIONAL,	
}		OPTIONAL	

Message

Name	ImInitialReportAck
Identifier	Im 2006
Purpose	Indicate to the provider of an initial incident report that the report was received by the dispatcher.

Usage

DRAFT

Agency policy determines whether this message is sent by the dispatch computer as soon as it receives the report, or whether a manual acknowledgement by the dispatcher is required first. The originator is copied from the original ImInitialIncidentReport message.

Definition

```
SEQUENCE {
  originator      CPT-EmployeeID,
  incidentID      IM-IncidentID,
  ackTime         CPT-DateTime,
  dispatcherID    CPT-EmployeeID OPTIONAL
}
```

Message

Name	ImSilentAlarm
Identifier	Im 2000
Purpose	Notify the dispatch computer that the silent alarm has been triggered on a transit vehicle.

Usage

The intent is that the operator does not need to manually input any information. Optional fields are included only if the vehicle computer has information available to automatically populate those fields.

Definition

```

SEQUENCE {
vehicleID          CPT-VehicleID,
timeDate          CPT-DateTime,
location          LRMS.GeoLocation,
inMotion          CPT-Boolean          OPTIONAL,
doorsOpen         CPT-Boolean          OPTIONAL,
passengersOnboard IM-VehicleOccupantCount OPTIONAL,
operatorID        CPT-OperatorID      OPTIONAL,
engineRunning     CPT-Boolean          OPTIONAL
}

```

Message

Name	ImSilentAlarmAck
Identifier	Im 2001
Purpose	Notify the vehicle computer that the silent alarm has been acknowledged by the dispatcher.

Usage

This message triggers agency defined actions by the onboard computer. Usually this includes covert changes to the MDT display format.

Definition

```
SEQUENCE {  
  vehicleID  
  policeEnroute  
}  
CPT-VehicleID,  
CPT-Boolean OPTIONAL
```

Message

Name ImSilentAlarmClose

Identifier Im 2003

Purpose Sent by the dispatch computer to the vehicle computer to indicate that the dispatcher has closed out the silent alarm previously actuated by that vehicle.

Usage

DRAFT

Definition

```
SEQUENCE {  
  vehicleID      CPT-VehicleID,  
  timeClosed     CPT-DateTime  
}
```


Message

Name	ImUpdateAck
Identifier	Im 2007
Purpose	Indicate to the provider of an incident update report that the update was received by the dispatcher.

Usage

Agency policy determines whether this message is sent by the dispatch computer upon receipt of the update, or whether a manual acknowledgement by the dispatcher is required first. The originator and incidentID fields are copied from the ImIncidentUpdate message.

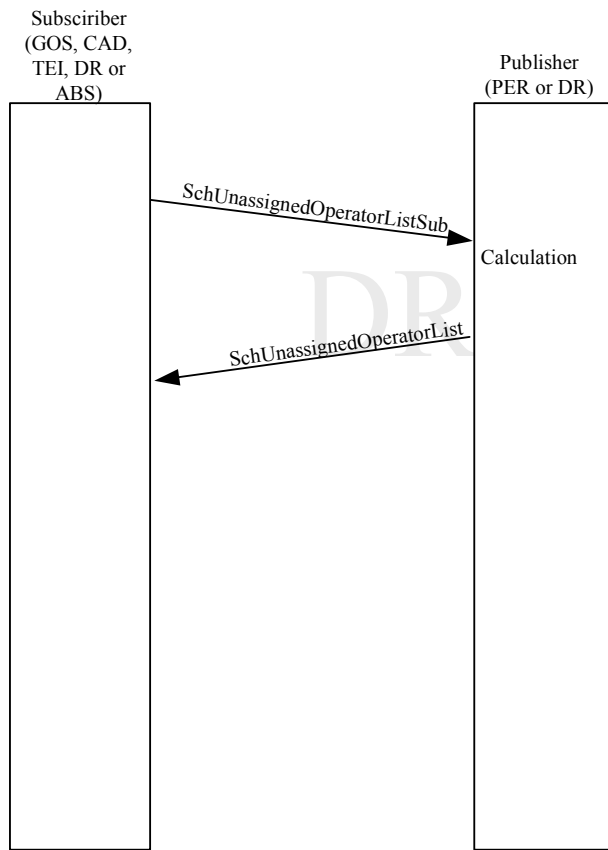
Definition

```

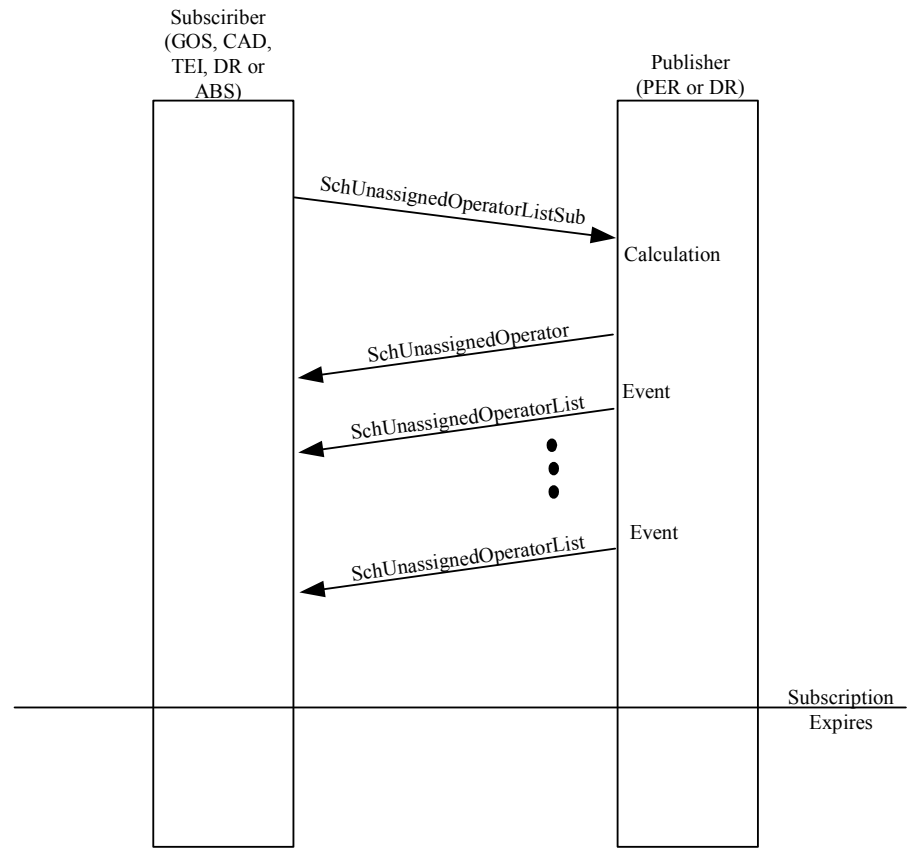
SEQUENCE {
  originator      CPT-EmployeeID,
  incidentID      IM-IncidentID,
  dispatcherID    CPT-EmployeeID OPTIONAL
}

```

Message Sequence Diagram Page 2



Normal Execution of Query "Subscribe Unassigned Operators" Subscription Dialog



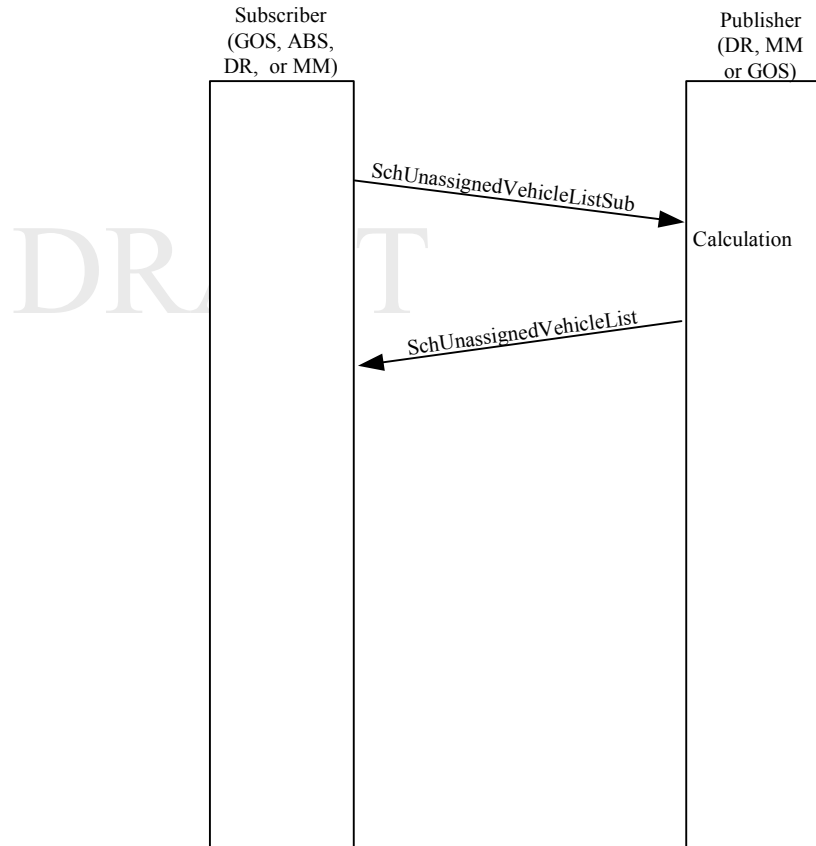
Normal Execution of Query "Subscribe Unassigned Operators" Subscription Dialog

TCIP Dialog Definition Page 3		
Dialog Name: Subscribe Unassigned Operators		
Business Area: Sch		
Dialog Pattern: Subscription		
Message Name	Message Identifier	Role
SchUnassignedOperatorListSub	sch 2024	Request unassigned operator information, from the subscriber to the publisher.
SchUnassignedOperatorList	sch 2025	Provide subscribed operator assignment information from the publisher to the subscriber.
CptSubErrorNotice	cpt 2000	End the dialog with an error notification from the publisher to the subscriber.
Notes:		

Subscribe Unassigned Vehicles (Deprecated)

TCIP Dialog Definition Page 1
<p>Dialog Name: Subscribe Unassigned Vehicles</p> <p>Business Area: Sch</p> <p>Dialog Pattern: Subscription</p>
<p>Purpose: Allows a subscriber to obtain a list of unassigned Vehicles for a specified time interval for specified vehicles, vehicle types, vehicle-attributes, or garages. The subscriber can obtain a list of all unassigned vehicles for the specified interval by not specifying a list of vehicles, vehicle types, vehicle attributes, or garages.</p>
<p>Assumptions:</p> <ol style="list-style-type: none"> 1. This should be a query subscription. 2. The publisher may be a Data Repository (DR), Maintenance Management System (MM), Garage Operations System (GOS). 3. The subscriber may be Garage Operations System (GOS). Authorized Business System (ABS), Data Repository (DR), or a Maintenance Management System (MM).
<p>Narrative:</p> <ol style="list-style-type: none"> 1. The subscriber determines the vehicles, vehicle attributes, vehicle types or garages required (or all). The subscriber sends a SchUnassignedVehicleListSub message to the publisher with the subscription type indicating query. 2. The scheduling system (or alternate schedule repository) ("Publisher") validates the request and determines: <ol style="list-style-type: none"> A. The request is invalid, unauthorized or cannot be serviced. The publisher then generates a CptSubErrorNotice to the subscriber and the dialog ends. B. The request can be serviced. The publisher prepares a SchUnassignedVehicleList message in response to the subscription request. 3. The dialog ends after the publisher generates a CptSubErrorNotice for the subscription request, or a SchUnassignedVehicleList in response to the request.

Message Sequence Diagram Page 2



Normal Execution of Query "Subscribe Unassigned Vehicle"

TCIP Dialog Definition Page 3		
Dialog Name: Subscribe Unassigned Vehicles		
Business Area: Sch		
Dialog Pattern: Subscription		
Message Name	Message Identifier	Role
SchUnassignedVehicleListSub	sch 2022	Request query subscription, from the subscriber to the publisher.
SchUnassignedVehicleList	sch 2023	Provide subscribed vehicle assignment information from the publisher to the subscriber.
CptSubErrorNotice	cpt 2000	End the dialog with an error notification from the publisher to the subscriber.
Notes:		

Subscribe Vehicle Assignments**TCIP Dialog Definition Page 1**

Dialog Name: Subscribe Vehicle Assignments

Business Area: Sch

Dialog Pattern: Subscription

Purpose: Allows a subscriber to obtain vehicle assignments for a specified time interval for specified vehicles, routes or garages. The subscriber can obtain assignments for the specified interval for all vehicles by not specifying a list of vehicles, garages, or routes. Work assignments may be “unbound” (no vehicle assigned to the work) or “bound” (with specific vehicle(s) assigned).

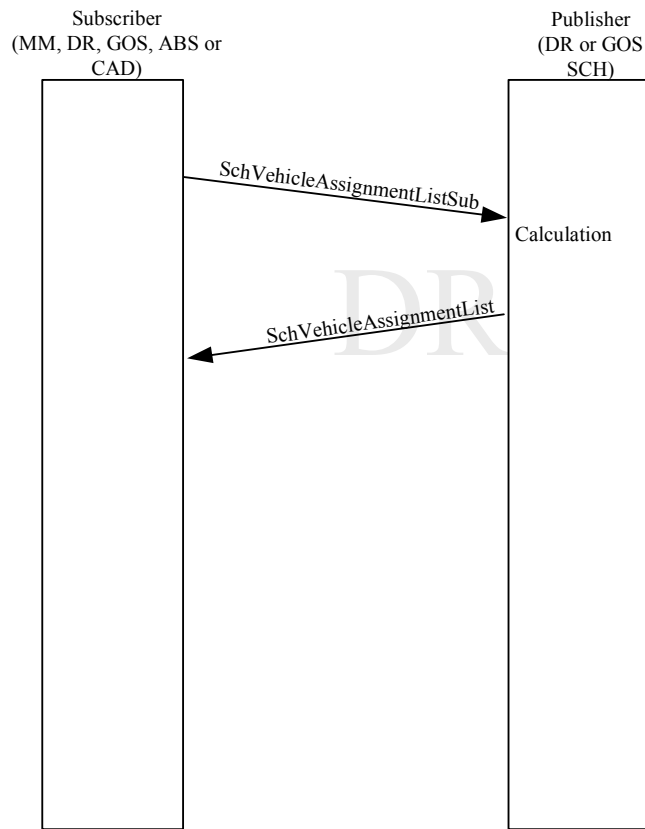
Assumptions:

1. This may be a query or an event-driven subscription.
2. The publisher may be a Data Repository (DR), Scheduling System (SCH), or a Garage Operations System (GOS).
3. The subscriber may be a Maintenance Management System (MM), Garage Operations System (GOS), Data Repository (DR), Authorized Business System (ABS) or CAD/AVL System (CAD).
4. The update since field in the SchVehicleAssignment and the SchVehicleAssignmentListSub message can be used to request and obtain updates since a specific date-time. In the event-driven case, the publisher has the option to send updates only after sending the initial list.

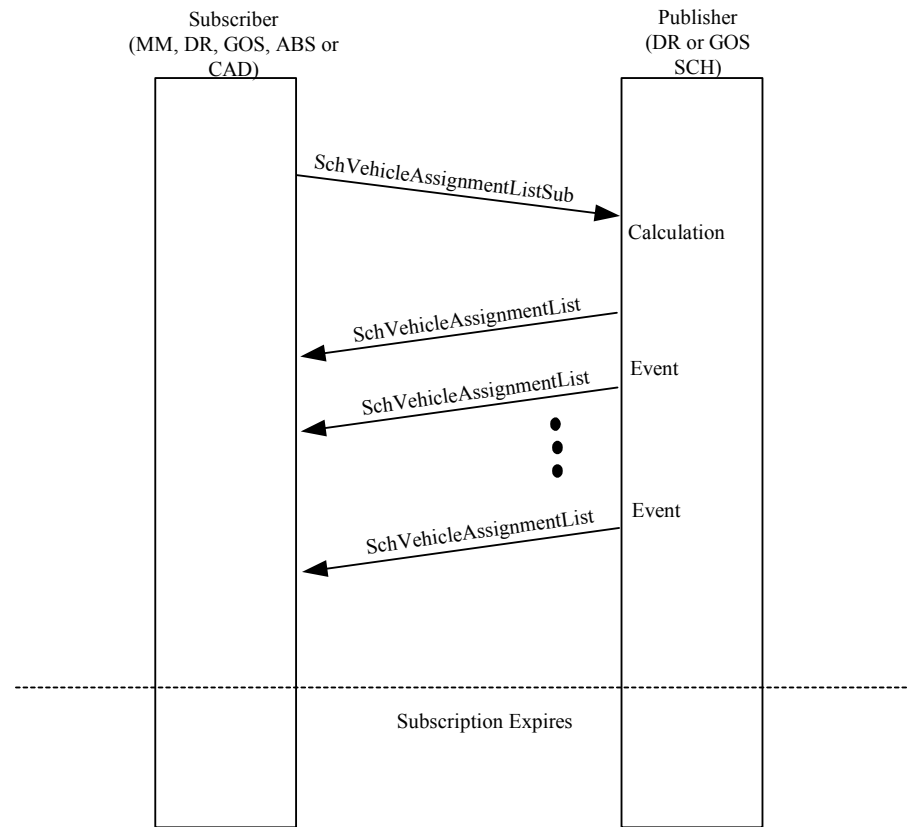
Narrative:

1. The subscriber determines the vehicles, garages routes, required (or all). The subscriber sends a SchVehicleAssignmentListSub message to the publisher with the subscription type indicating query, or event-driven.
2. The scheduling system (or alternate schedule repository) ("Publisher") validates the request and determines:
 - A. The request is invalid, unauthorized or cannot be serviced. The publisher then generates a CptSubErrorNotice to the subscriber and the dialog ends.
 - B. The request can be serviced. The publisher prepares a SchVehicleAssignmentList message in response to the subscription request.
 - C. If the request is event-driven, the publisher provides updates as the work assignments are bound to vehicles or changed.
3. The dialog ends after the publisher generates a CptSubErrorNotice for the subscription request, or a SchVehicleAssignmentList in response to the request, if the subscription type is query. The dialog ends after the publisher generates a CptSubErrorNotice, or the subscription expires, or the subscriber sends a cancellation request if the subscription type is event-driven.

Message Sequence Diagram Page 2



Normal Execution of Query "Subscribe Vehicle Assignment" Subscription Dialog



Normal Execution of Event-Driven "Subscribe Vehicle Assignments" Subscription Dialog

TCIP Dialog Definition Page 3		
Dialog Name: Subscribe Vehicle Assignments		
Business Area: Sch		
Dialog Pattern: Subscription		
Message Name	Message Identifier	Role
SchVehicleAssignmentListSub	sch 2010	Request query subscription, from the subscriber to the publisher.
SchVehicleAssignmentList	sch 2011	Provide subscribed vehicle assignment information from the publisher to the subscriber.
CptSubErrorNotice	cpt 2000	End the dialog with an error notification from the publisher to the subscriber.
SchVehicleAssignmentSub	sch2010	Cancel an event-driven subscription from the subscriber to the publisher.
<p>Notes:</p> <p>Query-based subscriptions will normally be used to “pull down” unbounded vehicle assignments, and event-driven subscriptions will normally be used to provide bounded vehicle assignments (due to frequent changes), however the final decision on which subscription type to use for what interactions are based on agency architectures.</p>		

Report Schedule Validation Error**TCIP Dialog Definition Page 1**

Dialog Name: Report Schedule Validation Error

Business Area: Sch

Dialog Pattern: Report

Purpose: Notify a data repository, scheduling system, or other agency-specified business system receiver of a schedule validation failure.

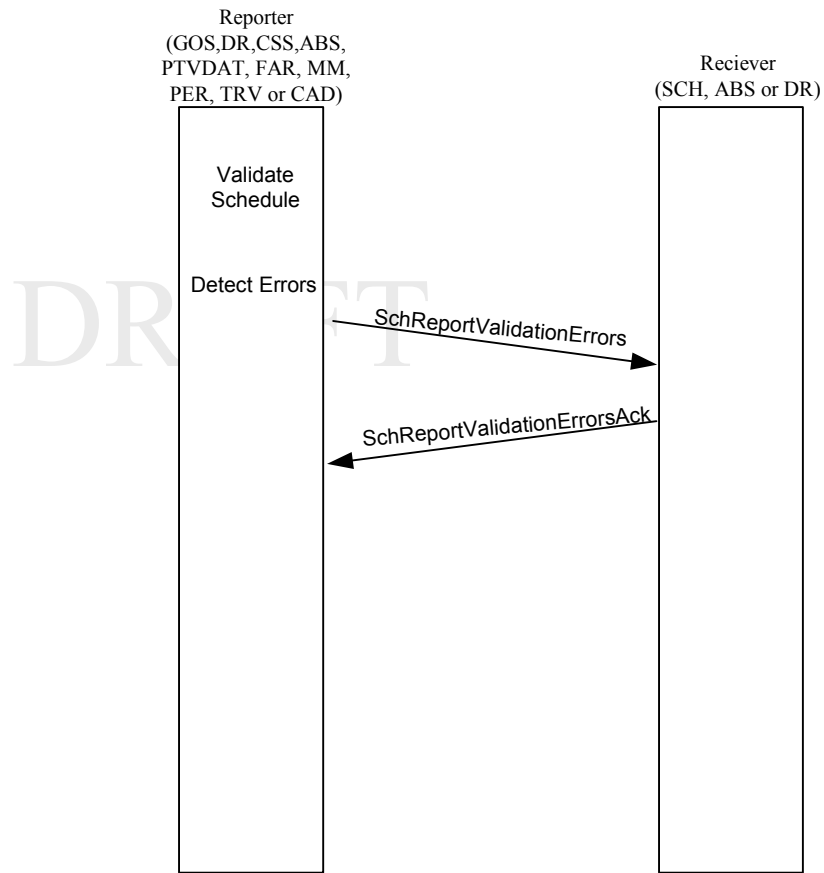
Assumptions:

1. Used by a schedule consumer application to report a defect in a schedule.
2. The reporter may be a Garage Operations System (GOS), Data Repository (DR), Customer Service System (CSS), Authorized Business System (ABS), PTV Manage VLU Data (PTVDAT), Fare System (FAR), Maintenance Management System (MM), Personnel Management System (PER), Traveler Information System (TRV) or a CAD/AVL System (CAD).
3. The receiver may be a Scheduling System (SCH), Authorized Business System (ABS) or a Data Repository (DR).

Narrative:

1. The schedule consumer application validates the schedule in preparation for use and detects one or more errors.
2. The schedule consumer application (reporter) sends a SchReportValidationErrors message to the agency-specified business system (receiver).
3. The receiver sends a SchReportValidationErrorsAck message to the reporter.
4. The dialog ends.

Message Sequence Diagram Page 2



Normal Execution of the "Report Schedule Validation Error" Dialog

TCIP Dialog Definition Page 3		
Dialog Name: Report Schedule Validation Error		
Business Area: Sch		
Dialog Pattern: Report		
Message Name	Message Identifier	Role
SchReportValidationErrors	Sch 2038	Report that a schedule is invalid.
SchReportValidationErrorsAck	Sch 2039	Acknowledge the report of an invalid schedule.
Notes:		

DRAFT

Subscribe Running Times**TCIP Dialog Definition Page 1**

Dialog Name: Subscribe Running Times

Business Area: Sch

Dialog Pattern: Subscription-Query

Purpose: Provides an authorized subscriber with the scheduled or expected running times for a route or part of a route.

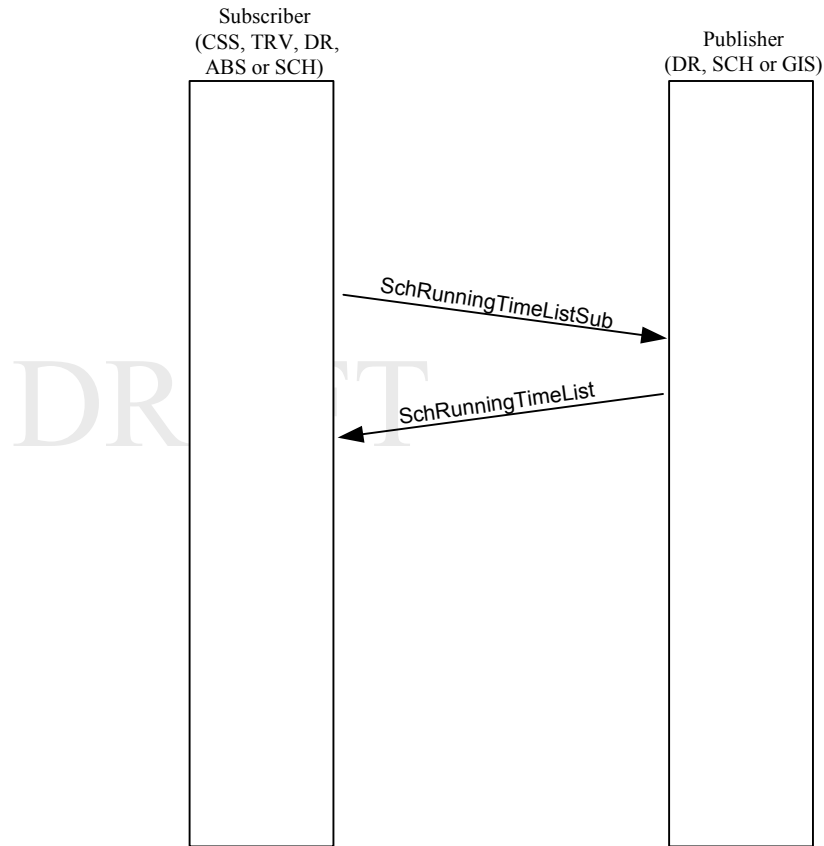
Assumptions:

1. The publisher may be a Data Repository (DR), Scheduling System (SCH) or Geographical Information System (GIS).
2. The subscriber may be Customer Service System (CSS), Traveler Information System (TRV), Data Repository (DR), Authorized Business System (ABS) or Scheduling System (SCH).

Narrative:

1. The subscriber determines the routes, patterns, pattern segments, timepoint pairs or stoppoint pairs of interest and sends a SchRunningTimeListSub message to the publisher.
2. The publisher validates the message and determines:
 - a. The request is invalid or from an unauthorized user. The publisher sends a CptSubErrorNotice to the subscriber and the dialog ends.
 - b. The request is valid and the subscriber is authorized. The publisher sends a SchRunningTimeList message to the subscriber and the dialog ends.

Message Sequence Diagram Page 2



Normal Execution of the "Subscribe Running Times" Dialog

TCIP Dialog Definition Page 3**Dialog Name:** Subscribe Running Times**Business Area:** Sch**Dialog Pattern:** Subscription-Query

Message Name	Message Identifier	Role
SchRunningTimeListSub	Sch 2040	Request running times for pair(s) of points on transit routes.
SchRunnintTimeList	Sch 2041	Provide scheduled or expected running times.
CptSubErrorNotice	Cpt 2000	Notify the subscriber of an error in subscription request.

Notes:

D.2 Incident Management Dialogs

DRAFT

Subscribe Incidents**TCIP Dialog Definition Page 1**

Dialog Name: Subscribe Incidents

Business Area: IM

Dialog Pattern: Subscription

Purpose: Distribute active incident information from the CAD/AVL System or data repository to interested parties within the agency.

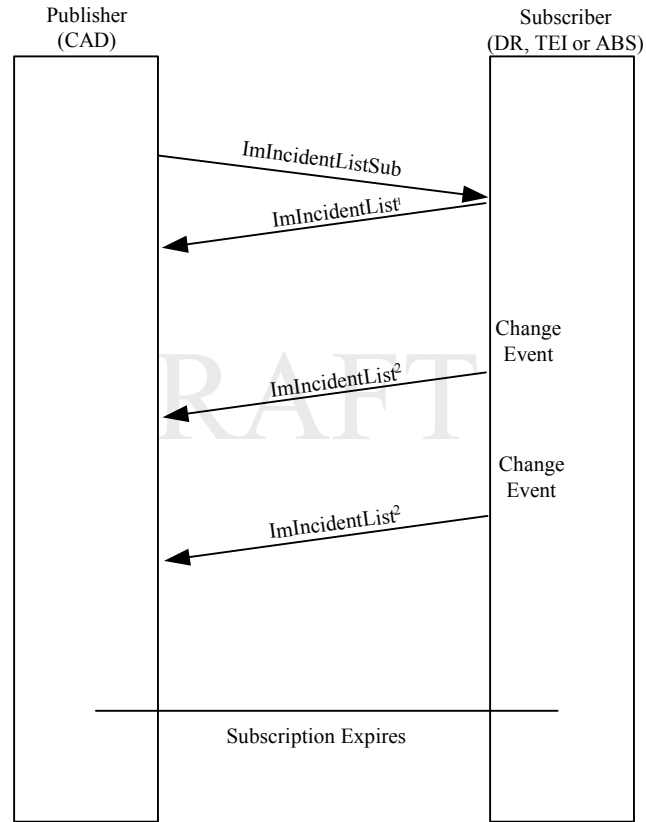
Assumptions:

1. The publisher determines whether the subscriber is authorized to have the incident information requested based upon agency policies.
2. The publisher may be a CAD/AVL System (CAD).
3. The subscriber may be the Data Repository (DR), Transit Employee Interface (TEI) or an Authorized Business System (ABS).
4. Optional fields describing the incident are not repeated with each update unless the information changes.
5. This dialog is an event-driven subscription.

Narrative:

1. The subscriber determines the scope of incident(s) of interest and sends an ImIncidentListSub message.
2. The publisher determines if the subscription request is valid.
 - A. If the subscription request is invalid, the publisher sends a CptSubErrorNotice to the subscriber and the dialog ends.
 - B. If the subscription request is valid, the publisher sends an ImIncidentList message to the subscriber containing a list of active incidents matching the subscription request. Each incident is described in this initial list to the publisher.
 - C. As the incident(s) are updated, the publisher sends a new ImIncidentList message. Incidents are only described in this message if there has been a change, and the only optional information provided is the updated information.
3. The dialog ends when:
 - A. The subscriber sends a new InIncidentSub message canceling the subscription, or
 - B. The subscription expires.

Message Sequence Diagram Page 2



Normal Execution of the "Subscribe Incidents" Dialog

- 1 Complete detail on each incident.
- 2 Incidents containing only details of changes.

TCIP Dialog Definition Page 3		
Dialog Name: Subscribe Incidents		
Business Area: Im		
Dialog Pattern: Subscription		
Message Name	Message Identifier	Role
ImIncidentListSub	Im 2008	Request a subscription to current incident information for a specified geographical scope.
ImIncidentList	Im 2009	Provide current incident information within a specified geographical scope.
CptSubErrorNotice	Cpt 2000	Notify the subscriber that the subscription request was invalid.
Notes:		

Report Incident**TCIP Dialog Definition Page 1**

Dialog Name: Report Incident

Business Area: Im

Dialog Pattern: Report

Purpose: Notify the dispatcher of an incident.

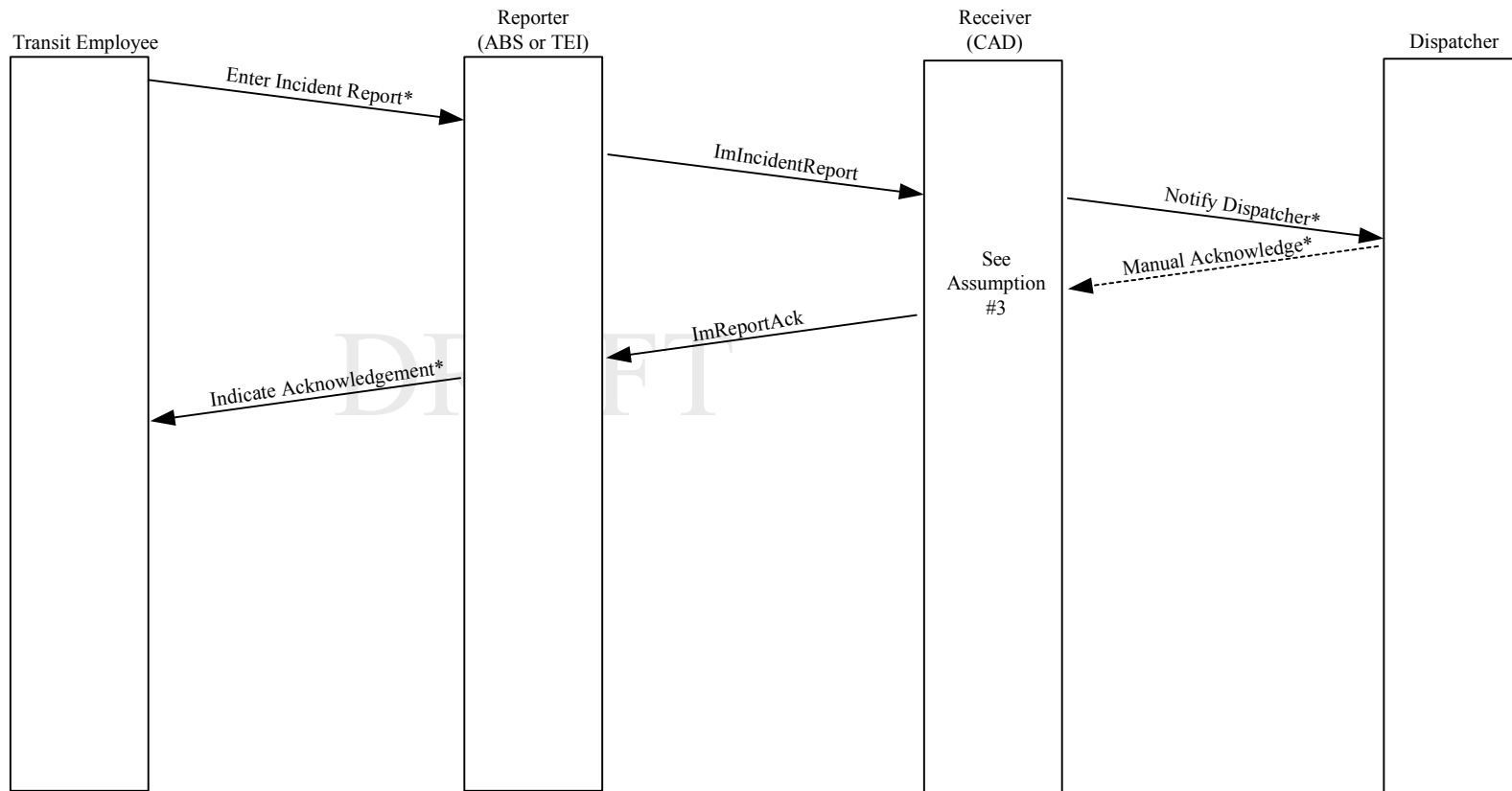
Assumptions:

1. Used by a transit employee to initially report an incident to the dispatcher.
2. Agency/vendor defined procedures govern the recovery if the ImInitialReportAck message is not received.
3. Agency policies determine whether the dispatch computer acknowledges the report automatically, or if the dispatcher must manually acknowledge the report.
4. Agency/vendor defined procedures apply for identifying and handling duplicate incident reports form different sources within the dispatch computer.
5. The reporter may be an Authorized Business System (ABS) or a Transit Employee Interface (TEI).
6. The receiver may be a CAD/AVL System (CAD).

Narrative:

1. The transit employee becomes aware of the incident, and enters information into a Transit Employee Interface (TEI) or other Authorized Business System (ABS).
2. The TEI or ABS sends an ImInitialIncidentReport message to the CAD/AVL System (CAD).
3. The CAD assigns an incident number, notifies the dispatcher, and performs other agency/vendor defined incident handling activities (see assumption # 3).
4. The CAD acknowledges the message to the initiating TEI or ABS by sending an ImInitialRepotAck message.
5. The TEI or ABS indicates to the transit employee that the report was received.
6. The dialog ends.

Message Sequence Diagram Page 2



*Agency/Vendor defined Transaction

Normal Execution of the Report Incident Report Dialog

TCIP Dialog Definition Page 3		
Dialog Name: Report Incident		
Business Area: Im		
Dialog Pattern: Report		
Message Name	Message Identifier	Role
ImInitialIncidentReport	Im 2004	Provide an initial incident report to the CAD/AVL System.
ImInitialReportAck	Im 2005	Acknowledge receipt by the CAD/AVL System of the incident report.
Notes:		

Report Incident Update**TCIP Dialog Definition Page 1**

Dialog Name: Report Incident Update

Business Area: Im

Dialog Pattern: Report

Purpose: Notify the dispatcher of an update to an incident.

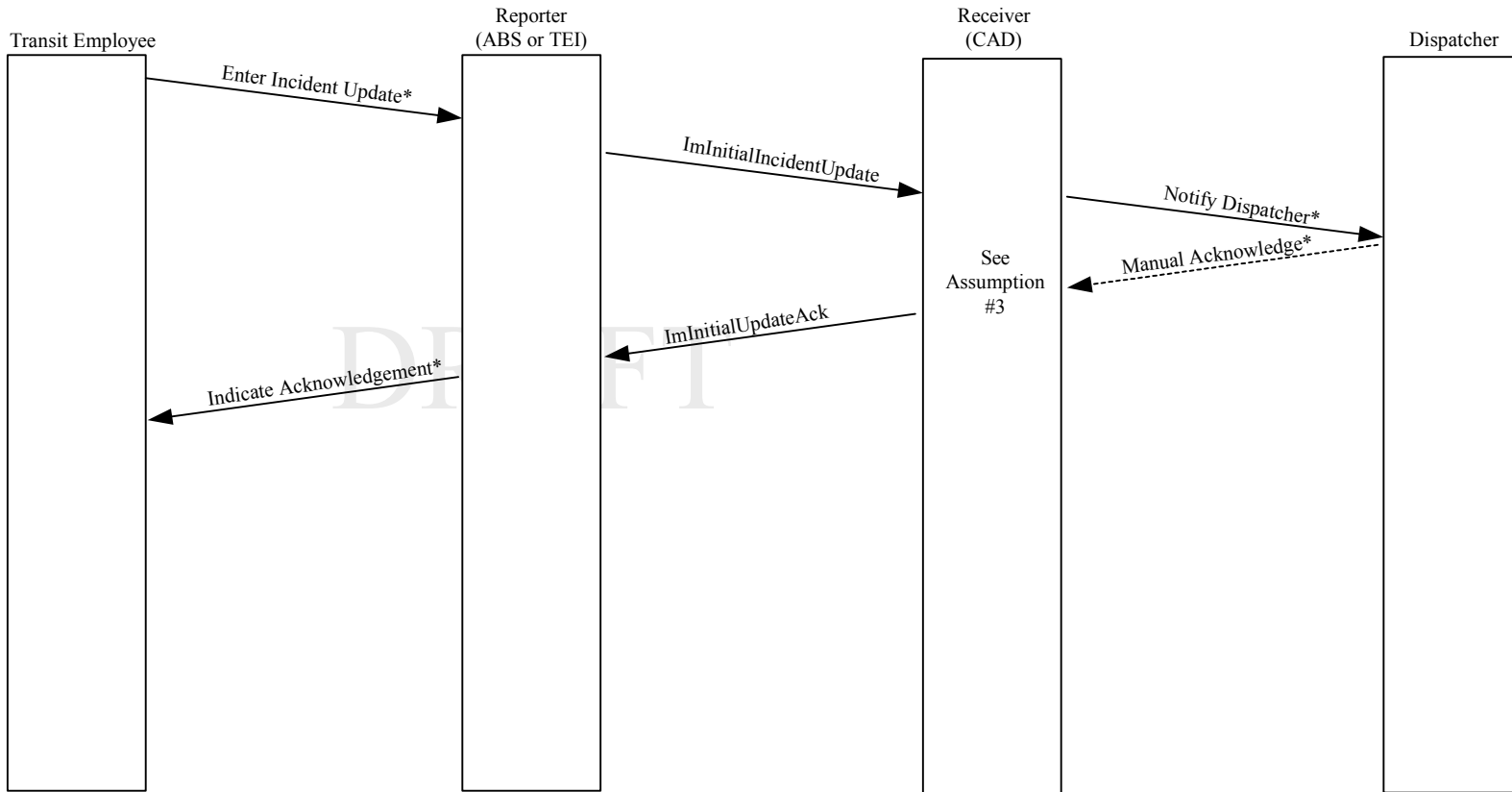
Assumptions:

1. Optional fields in the incident report are filled in only if they have changed.
2. The employee's user device already has a copy of the incident information, either as a result of the Report Incident dialog, or as a result of the SubscribeIncidents dialog.
3. Agency policies govern whether the CAD/AVL System acknowledges the update automatically, or if the dispatcher must manually acknowledge the update.
4. Agency/vendor defined procedures govern the recovery if the ImUpdateAck message is not received.
5. The reporter may be an Authorized Business System (ABS) or a Transit Employee Interface (TEI).
6. The receiver may be a CAD/AVL System (CAD).

Narrative:

1. An employee has new information about an incident to send to the dispatcher, and enters it into a Transit Employee Interface (TEI) or other Authorized Business System (ABS).
2. The TEI or ABS sends an ImIncidentUpdate message to the CAD/AVL System (CAD).
3. The CAD notifies the dispatcher, and/or performs other agency/vendor defined incident update procedures. These procedures may include initiating event driven updates via the Subscribe Incidents Dialog.
4. The CAD/AVL System acknowledges the message to the initiating TEI or ABS, by sending an ImUpdateAck message.
5. The TEI or ABS indicates to the transit employee that the update was received.
6. The dialog ends.

Message Sequence Diagram Page 2



*Agency/Vendor defined Transaction

Normal Execution of the Report Incident Update Dialog

TCIP Dialog Definition Page 3		
Dialog Name: Report Incident Update		
Business Area: Im		
Dialog Pattern: Report		
Message Name	Message Identifier	Role
ImIncidentUpdate	Im 2006	Provide an update to an existing incident report from a TEI or ABS to the CAD.
ImUpdateAck	Im 2007	Indicate receipt by the CAD of the incident update.
Notes:		

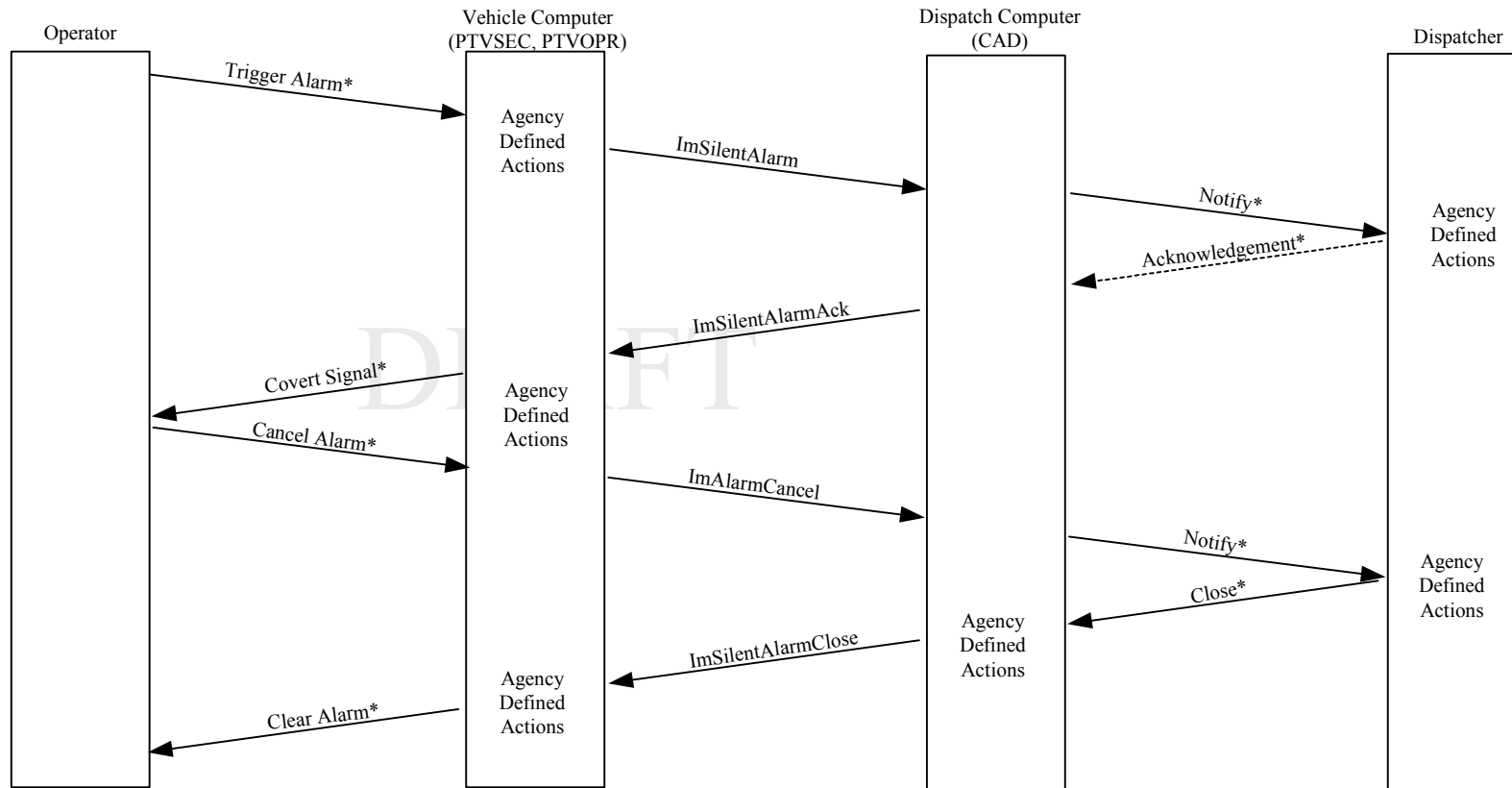
Silent Alarm**TCIP Dialog Definition Page 1****Dialog Name:** Silent Alarm**Business Area:** Im**Dialog Pattern:** Silent Alarm**Purpose:** Provide covert incident communications between a Public Transit Vehicle operator and the dispatcher. This dialog is intended to be used in circumstances where the operator may be under duress.**Assumptions:**

Once the silent alarm is triggered it can only be cleared by the dispatcher.

Narrative:

1. The vehicle operator triggers the silent alarm using an agency defined covert mechanism.
2. The VLU (PTVSEC) sends a ImSilentAlarm message to notify the CAD/AVL System (CAD). The PTVSEC may perform other agency defined covert actions while the silent alarm is in effect.
3. The CAD/AVL System notifies the dispatcher using an agency defined method. The CAD/AVL System may automatically initiate other agency defined actions as a result of the notification.
4. The dispatcher acknowledges the silent alarm using an agency defined method. The CAD/AVL System notifies PTVSEC of the acknowledgement by sending an ImSilentAlarmAck message.
5. The PTVSEC notifies the operator of the acknowledgment using an agency-defined covert mechanism.
6. Optionally, the operator cancels the alarm via the vehicles MDT (PTVOPR).
 - A. The PTVOPR sends a ImAlarmCancel message to the CAD/AVL System.
 - B. The CAD/AVL System notifies the dispatcher of the request to clear the alarm using an agency defined mechanism.
7. Due to 6 above, or for other reasons, the dispatcher determines the alarm should be cleared, and notifies the CAD/AVL System.
 - A. This CAD/AVL System clears the alarm, and performs related agency defined housekeeping tasks.
 - B. The CAD/AVL System sends a ImSilentAlarmClose message to the PTVSEC.
8. The PTVSEC performs necessary agency-defined housekeeping tasks to clear the alarm, including normalizing the MDT.
9. The dialog ends.

Message Sequence Diagram Page 2



*Agency/Vendor defined transactions

Normal Execution of the Silent Alarm Dialog

TCIP Dialog Definition Page 3		
Dialog Name: Silent Alarm		
Business Area: Im		
Dialog Pattern: Silent Alarm		
Message Name	Message Identifier	Role
ImSilentAlarm	Im 2000	Used by the PTVSEC to notify the CAD that the silent alarm had been activated.
ImSilentAlarmAck	Im 2001	Used by the CAD/AVL System to notify the VLU that the dispatcher is aware of the silent alarm actuation
ImAlarmCancel	Im 2002	Used by the PTVSEC/PTVOPR to notify CAD that the vehicle operator has requested that the alarm be cleared.
ImSilentAlarmClose	Im 2003	Used by CAD to notify the PTVSEC/PTVOPR that the alarm has been cleared/cancelled by the dispatcher.
<p>Notes: Agencies may specify that the CAD/AVL System acknowledge the ImSilentAlarm message with an ImSilentAlarmAck message without waiting for dispatcher input. This is a local agency policy decision.</p>		

Subscribe Incident Report History**TCIP Dialog Definition Page 1**

Dialog Name: Subscribe Incident Report History

Business Area: IM

Dialog Pattern: Subscription-Query

Purpose: Distribute information on current or past incidents from the CAD/AVL system or data repository to interested parties within the agency.

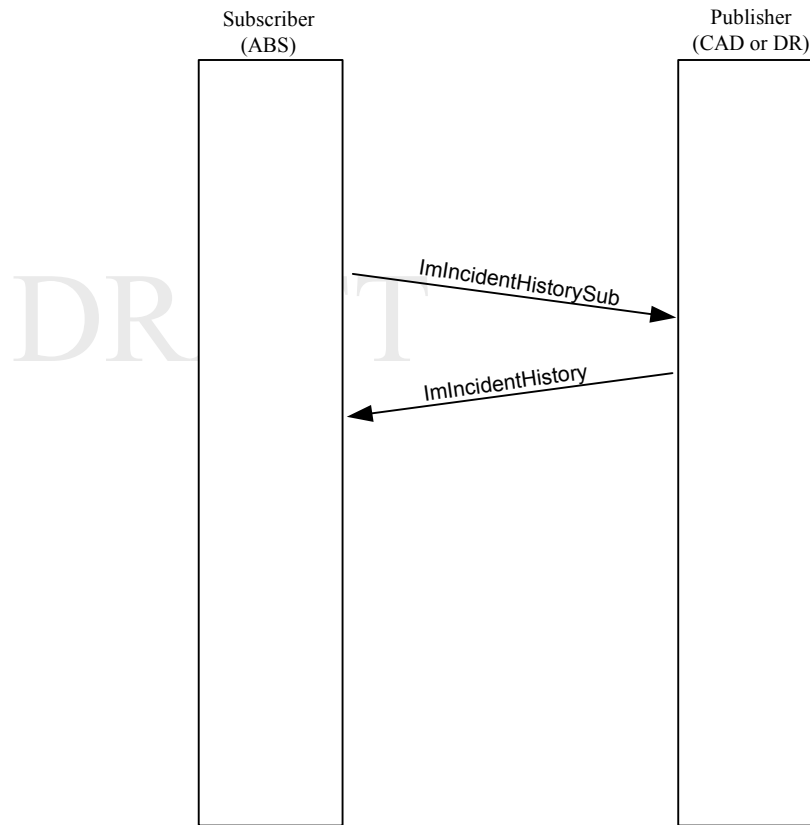
Assumptions:

1. The publisher determines whether the subscriber is authorized to have the incident information based upon agency policies.
2. The publisher maybe the CAD/AVL System (CAD) or a Data Repository (DR).
3. The subscriber maybe any Authorized Business System (ABS).
4. This dialog is a query subscription.

Narrative:

1. The subscriber determines the scope of the query and sends an ImIncidentHistorySub message.
2. The publisher determines if the subscription request (query) is valid, and the subscriber is authorized.
 - a. If the query is invalid, or the subscriber is unauthorized, the publisher sends a CptSubErrorNotice to the subscriber and the dialog ends.
 - b. If the query is valid, the publisher sends a ImIncidentHistory message to the subscriber and the dialog ends.

Message Sequence Diagram Page 2



Normal Execution of the "Subscribe Incident Report History" Dialog

TCIP Dialog Definition Page 3**Dialog Name:** Subscribe Incident Report History**Business Area:** IM**Dialog Pattern:** Subscription-Query

Message Name	Message Identifier	Role
ImIncidentHistorySub	Im 2010	Query for one or more current or past incident reports.
ImIncidentHistory	Im 2011	Provide one or more current or past incident reports.
CptSubErrorNotice	Cpt 2000	Notify the subscriber that the query is invalid.

Notes:

Command Dispatch Incident Response**TCIP Dialog Definition Page 1**

Dialog Name: Command Dispatch Incident Response

Business Area: IM

Dialog Pattern: Command Response

Purpose: Direct a transit person, team or equipment to respond to an incident.

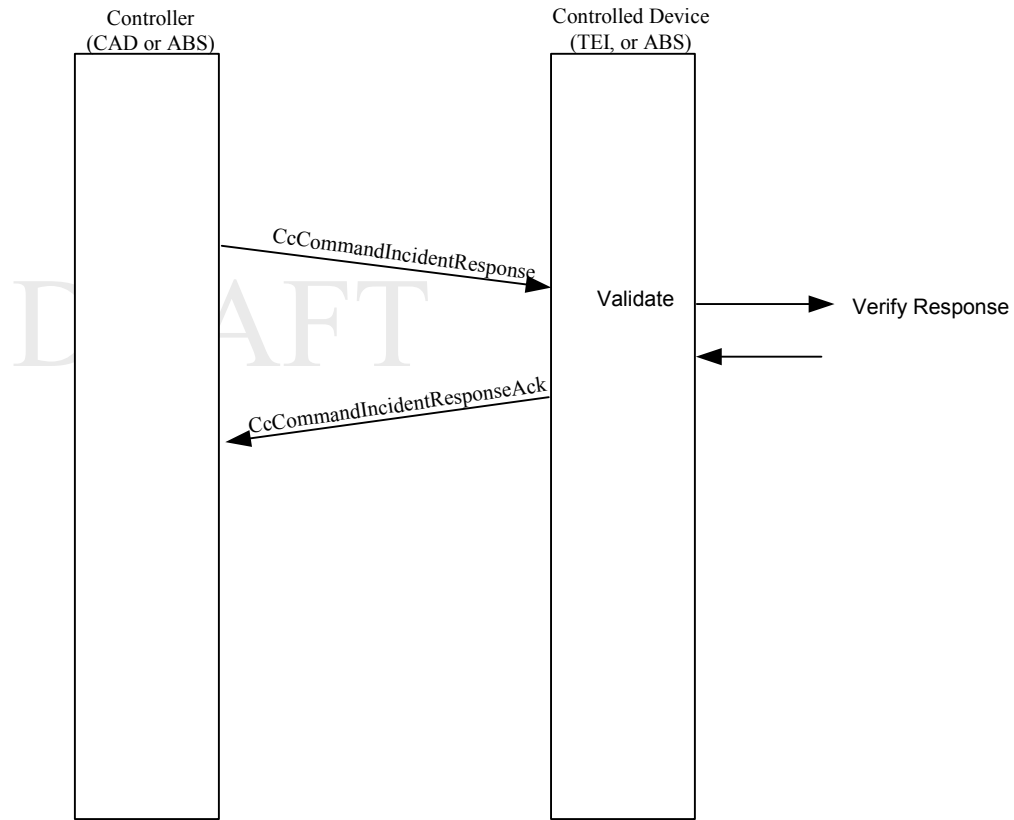
Assumptions:

1. The incident has previously been reported/detected and an incident report has been created in the CAD/AVL System.
2. The controller may be the CAD/AVL System (CAD), or another Authorized Business System (ABS).
3. The controlled device is the Transit Employee Interface (TEI) or other Authorized Business System (ABS).

Narrative:

1. The controller determines the necessary incident and responder information and sends a CcCommandIncidentResponse message to the responder's TEI or ABS (controlled device).
2. The controlled device validates the message, verifies with the employee that he/she will respond, and sends a CcCommandIncidentResponseAck message back to the controller. If the employee indicates he/she cannot respond, the acknowledgement so indicates.
3. The dialog ends.

Message Sequence Diagram Page 2



Normal Execution of the "Command Dispatch Incident Response" Dialog

TCIP Dialog Definition Page 3		
Dialog Name: Command Dispatch Incident Response		
Business Area: IM		
Dialog Pattern: Command Response		
Message Name	Message Identifier	Role
CcCommandIncidentResponse	CC	Direct a responder to go to an incident.
CcCommandIncidentResponseAck	CC	Acknowledge the command, with an indication as to whether the employee will respond.
Notes:		