

## Transit Facilities Example #7: Complex Transit Facility (multiple routes, modes and operators)

*Description:* Penn Station with 3 smaller facilities

Example of how operators with stations in larger stations may use the master Shared Facility Definition (transit facility and location) to reference their facilities.

### Master Shared Facility Definition

New York Pennsylvania Station

Penn Station,

NY Penn Station

LIRR, NJT Rail, Amtrak, NYCT Bus, NYCT Subway

Trips123: Longitude -73.993559; Latitude 40.752190;

\*\* stopID: (NYCT) 6079, 6413, 6471, 10664, 11281, 11372, 14741, 15252, (Triboro) 838, (Green Bus) 1098, (Atlantic Express) 21

### Transit Facility (master facility)

Element Name /Values	
effectiveDate / endDate	1966-10-12 / 9999-12-31
transitFacID	NYPENN
locationID	T101
facilityName	New York Pennsylvania Station
facilityDescription	Shared Transit Facility; bet W. 31 <sup>st</sup> St and W. 34 <sup>th</sup> Sts. and bet.7 <sup>th</sup> and 8 <sup>th</sup> Aves. (212) 630-6401. A major transit hub in midtown Manhattan, New York Penn Station serves LIRR, NJT Rail, Amtrak, NYCT Bus, NYCT Subway, Amtrak, (NJT / LIRR) and several public and private carriers.
owner	Amtrak
isPartOf	false
plantComponentList	<Note: None. (these may be derived at a later time)>

```
<sdp:TransitFacilities>
```

```
  <sdp:TransitFacility effectiveDate="1966-10-12 " endDate="9999-12-31">
```

```
    <sdp:transitFacilityID> NYPENN </sdp:transitFacilityID>
```

```
    <sdp:locationID>101</sdp:locationID>
```

```
    <sdp:facilityName> New York Pennsylvania Station </sdp:facilityName>
```

```
    <sdp:facilityDescription> Shared Transit Facility; bet W. 31st St and W. 34th Sts. and bet.7th and 8th Aves. (212) 630-6401. A major transit hub in midtown Manhattan, New York Penn Station serves LIRR, NJT Rail, Amtrak, NYCT Bus, NYCT Subway, Amtrak, (NJT / LIRR) and several public and private carriers.</sdp:facilityDescription>
```

```
    <sdp:owner> Amtrak </sdp:owner>
```

```
    <sdp:isPartOf>false</sdp:isPartOf>
```

```

    </sdp:TransitFacility>
</sdp:TransitFacilities>

```

#### Location (master location)

<i>Element Name /Values</i>	
effectiveDate / endDate	1966-10-12 / 9999-12-31
locationID	T101
featureType	transitFacility
locationDesc	Shared Transit Facility; bet W. 31 <sup>st</sup> St and W. 34 <sup>th</sup> Sts. and bet.7 <sup>th</sup> and 8 <sup>th</sup> Aves.
Intersection	7 <sup>th</sup> Av @ W. 33 <sup>rd</sup> St
longitude	-73.993559
latitude	40.752190
county	Manhattan
city	Manhattan [New York City]
state	NY
zip	10001
publicLocationDescription	New York Penn Station bet W. 31 <sup>st</sup> St and W. 34 <sup>th</sup> Sts. and bet.7 <sup>th</sup> and 8 <sup>th</sup> Aves.
isGeneralized	true

```

<sdp:TransitGazetteer>
  <sdp:Location effectiveDate="1966-10-12 " endDate="9999-12-31">
    <sdp:locationID>T101</sdp:locationID>
    <sdp:featureType> transitFacility </sdp:featureType>
    <sdp:locationDesc>Shared Transit Facility; bet W. 31st St and W. 34th Sts. and bet.7th
and 8th Aves.</sdp:locationDesc>
    <sdp:intersection>7th Av @ W. 33rd St </sdp:intersection>
    <sdp:longitude>-73.993559</sdp:longitude>
    <sdp:latitude>40.752190</sdp:latitude>
    <sdp:county> Manhattan </sdp:county>
    <sdp:city> Manhattan </sdp:city>
    <sdp:state>NY</sdp:state>
    <sdp:zip>10001</sdp:zip>
    <sdp:publicLocationDescription>New York Penn Station bet W. 31st St and W.
34th Sts. and bet.7th and 8th Aves.</sdp:publicLocationDescription>
    <sdp:isGeneralized> true </sdp:isGeneralized>
  </sdp:Location>
</sdp:TransitGazetteer>

```

**NYCT**

Subway Stations serving A-C-E and 1-2-3.

RTIF: 13 128 34 ST 34TH ST. PENN STA.  
20620060417) Line 1

594673 273567 (from 101 1 0070000

RTIF: 13 A28 34 ST.34TH PENN STA.  
20620051215) Line A

594004 274191 (from 10A 1 0070000

**Transit Facility (master facility)**

<i>Element Name /Values</i>	<i>Subway facility for 1/2/3</i>	<i>Subway facility for A/C/E</i>
effectiveDate / endDate	1966-10-12 / 9999-12-31	1966-10-12 / 9999-12-31
transitFacID	128	A28
locationID	128	A28
facilityName	New York Pennsylvania Station	New York Pennsylvania Station
facilityDescription	Penn Station for Lines 1/2/3	Penn Station for Lines A/C/E
isPartOf	true	true
part of	NYPENN	NYPENN
plantComponentList	See below	See below

**Plant Component List for transitFacID = 128 (1/2/3 subway)**

<i>Element Name /Values</i>			
plantCompID	1	2	3
componentID	stopID>128a	portalID>101	portalID>102
plantCompType	transitStop	portal	portal
locationDescription	Platform A, centered between two tracks with trains going north and south	7 <sup>th</sup> Ave & W. 34 <sup>th</sup> St. southeast corner	7 <sup>th</sup> Ave & W. 34 <sup>th</sup> St.; enter Penn Station and proceed down two flights of stairs
plantCompDescription	Subway stop at Penn Station serving Lines 1/2/3.	Only stairs are available at this entrance.	Stairs and elevators are available at this entrance.

**Plant Component List for transitFacID = A28 (A/C/E subway)**

<i>Element Name /Values</i>			
plantCompID	1	2	3
componentID	stopID>A28a	portalID>103	portalID>104
plantCompType	transitStop	portal	portal
locationDescription	Platform A, centered between two tracks with trains going north and south	8 <sup>th</sup> Ave & W. 34 <sup>th</sup> St. southwest corner	8 <sup>th</sup> Ave & W. 33 <sup>rd</sup> St.; @ Penn Sta.
plantCompDescription	Subway stop at Penn Station serving Lines A/C/E.	Only stairs are available at this entrance.	Stairs and elevators are available at this entrance.

**Transit Stop for Lines 1/2/3 at Penn St.**

Element name / values		comment
effectiveDate / endDate	1966-10-12 / 9999-12-31	
stopID	128a	
locationID	128	
stopType	platform	
publicStopName	Platform A	
publicStopNumber	A	
TrackList	trackNo>1 alongLocation>left trackNo>4 alongLocation>right	alongDirection is the side while one is facing the direction of travel or north/west. Track 1 serves the south direction. Track 4 serves the north direction.

#### Transit Stop for Lines 1/2/3 at Penn St.

Element name / values		comment
effectiveDate / endDate	1966-10-12 / 9999-12-31	
stopID	A28a	
locationID	A28	
stopType	platform	
publicStopName	Platform A	
publicStopNumber	A	
TrackList	trackNo>1 alongLocation>left trackNo>2 alongLocation>right	alongDirection is the side while one is facing the direction of travel or north/west. Track 1 serves the south direction. Track 2 serves the north direction.

#### Location for Lines 1/2/3

Element Name /Values			
effectiveDate / endDate	1966-10-12 / 9999-12-31	1966-10-12 / 9999-12-31	1966-10-12 / 9999-12-31
locationID	128	128a	128b
featureType	transitStop	portal	portal
locationDesc	NY Penn Station (1/2/3)	NY Penn Station(1/2/3) @ 7 <sup>th</sup> Ave & W. 34 <sup>th</sup> St.	NY Penn Station (1/2/3) @ 7 <sup>th</sup> Ave & 33 <sup>rd</sup> St
longitude		-73.990696	-73.990696
latitude		40.750988	40.750988
xcoord	59467		
ycoord	273567		
publicLocationDescription	W. 34 <sup>th</sup> S. at NY Penn Station (1/2/3)	NY Penn Station(1/2/3) entrance @ 7 <sup>th</sup> St & W. 34 <sup>th</sup> St.	NY Penn Station (1/2/3) entrance @ Penn Station
isGeneralized	true	false	false
generalizedLocation		128	128

#### Location for Lines A/C/E

Element Name /Values			
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effectiveDate / endDate	1966-10-12 / 9999-12-31	1966-10-12 / 9999-12-31	1966-10-12 / 9999-12-31
locationID	A28	A28a	A28b
featureType	transitStop	Portal	portal
locationDesc	NY Penn Station (A/C/E)	NY Penn Station(A/C/E), 8 <sup>th</sup> Ave & W. 34 <sup>th</sup> St.	NY Penn Station(A/C/E) 8 <sup>th</sup> Ave & W. 33 <sup>rd</sup> St. @ Penn Sta.
longitude		-73.993559	-73.993559
latitude		40.752190	40.750988
xcoord	594004		
ycoord	274191		
publicLocationDescription	W. 34 <sup>th</sup> S. at NY Penn Station (1/2/3)	NY Penn Station(1/2/3) entrance @ 8 <sup>th</sup> St & W. 34 <sup>th</sup> St.	NY Penn Station (1/2/3) entrance @ Penn Station
isGeneralized	true	false	false
generalizedLocation		A28	A28

### Portals

<i>Element Name /Values</i>				
effectiveDate / endDate	1966-10-12 / 9999-12-31	1966-10-12 / 9999-12-31	1966-10-12 / 9999-12-31	1966-10-12 / 9999-12-31
portalID	101	102	103	104
locationID	128a	128b	A28a	A28b
agencyID	nyct	nyct	nyct	nyct
accessDirectionCode	both	both	both	both

```

<sdp:Portal effectiveDate="1966-10-12" endDate="9999-12-31">
  <sdp:portalID>101</sdp:portalID>
  <sdp:locationID> A28a</sdp:locationID>
  <sdp:agencyID>nyct</sdp:agencyID>
  <sdp:accessDirectionCode>both</sdp:accessDirectionCode>
</sdp:Portal>

```