Real-time Rail Data Web Services
(Rev 5)

Web Service

This is the test web service you can use to develop a new API interface to the real-time data. The new API will not restrict you to a staticIP address and will allow any request with the appropriate key to access the data.

Web Services Production URL:
http://traindata.njtransit.com:8090/NJTTrainData.asmx

Web Services Test URL:
http://njttraindata_tst.njtransit.com:8090/njttraindata.asmx

The web services needs to be added into the application as a web reference and then you can include the desired parameters.

There are username and password parameters:
Send your Email, Username, and Password that you would like to use in test and production to ProductionPasscomm@njtransit.com and we will add you the real-time data feed list. Please pass username and password parameters first, then call the methods, please see detail below:

username and password parameters:
UserCredentials.userName, UserCredentials.password

There are 3 types of method calls:

- getStationListXML (list all stations in XML format)

- getTrainScheduleJSON (list train schedule for a given station in JSON format, data is much the same as DepartureVision)

- getTrainScheduleXML (list train schedule for a given station in XML format, data is much the same as DepartureVision)

Below is a simple sample code in C# (service1 is your web reference name):

_____

```
service1.UserCredentials user = new service1.UserCredentials();
user.userName = "your username here";
user.password = "your password here";

service1.ServiceExternal service = new service1.ServiceExternal();
service.UserCredentialsValue  = user;

try
{
        XmlNode doc1  = service.getTrainScheduleXML("NP");
}
catch
{
}
```

```
            finally
            {
            }
```
_____

The formats allow 3rd parties to have access to full screen, banner, and inline messages that are applied to a station or a trainID. Soon, it also will provide approxmate GPS location data. (Some error has intentionally been introduced.) The new format also supports JASON as well as XML formats. Older formats will only be supported until June 2013.

Web calls are for the real-time data and not for scheduled trips for trains that have not left their origin. Third party should not be constantly requesting data but only when there is a specific request. For schedule data beyond the next 19 departures from a station the developer should be using the GTFS data.

If you have questions about the real-time data interface you can contact us at ProductionPasscomm@njtransit.com. Any questions about the GTFS schedule data should be made to the Customer Service Helpdesk from 8:30am to 5pm at **(973) 275-5555**.

If a trainID has an "A" in front of it, it is an Amtrak train and S is a Septa train.

When using the track data at a few stations there is a translation between railroad track that is provided in the data and the public track that the public sees at the station. Use the table below for those translations.

TRACK	TRANSLATION	STATION
Single	1	Lebanon
2	1	Metropark
B	2	Montclair State U
Single	1	Montclair State U
0	A	Newark Airport
4	E	Secaucus Lower Lvl
2	F	Secaucus Lower Lvl
3	H	Secaucus Lower Lvl
1	G	Secaucus Lower Lvl
Single	S	Summit

Station Position	TRANSLATION
0	Origin Station
1	Valid Stop between Origin and Terminate Station
2	Terminate Station

Schema for Real-time Web Service.
(Below is for getTrainScheduleXML. getTrainScheduleJSON returns the same XML in JSON format)
Please note:
When Full Screen Message is on, schedule data will be blocked.

When Full Screen Message is not on, Banner Message and Inline Message may or may not have data, they show with schedule data.
Schedule data matches Departure Vision. There is a limit on total schedule records, Data starts with current time, gives 19 records.

Below field gives train line information:
`<LINE>NJCL</LINE>`

Below fields may or may not show depends on Amtrak Data:
`<PICKUP>Pick Up Only</PICKUP>`
`<DROPOFF>Discharge Only</DROPOFF>`

Below fields might be empty, this feature is at "in progress" mode.
When fields are not empty, GPSTIME is the timestamp when GPS position values were captured.
`<GPSLATITUDE></GPSLATITUDE>`
`<GPSLONGITUDE></GPSLONGITUDE>`
`<GPSTIME></GPSTIME>`

Case 1) When Full Screen Message:
`<STATION><FULLSCREENMSG>This is a test of full screen<BR></FULLSCREENMSG></STATION>`

Case 2) When full screen message is not on:

```
<STATION>
<STATION_2CHAR>NA</STATION_2CHAR>
<STATIONNAME>Newark Airport</STATIONNAME>
<BANNERMSG>This is a test of the banner messages with only one station, Airport,for
DepartureVision.<BR>This is a test of the banner messages for DepartureVision.<BR></BANNERMSG>
<ITEMS>
<ITEM>
<ITEM_INDEX>0</ITEM_INDEX>
<SCHED_DEP_DATE>16:01:45 12/04/2012</SCHED_DEP_DATE>
<DESTINATION>NY Penn -SEC</DESTINATION>
<TRACK>A</TRACK>
<LINE>NJCL</LINE>
<TRAIN_ID>3256</TRAIN_ID>
<STATUS>in 1 Min</STATUS>
<BACKCOLOR>CornflowerBlue</BACKCOLOR>
<FORECOLOR>white</FORECOLOR>
<SHADOWCOLOR>black</SHADOWCOLOR>
<GPSLATITUDE></GPSLATITUDE>
<GPSLONGITUDE></GPSLONGITUDE>
<GPSTIME></GPSTIME>
<TRAIN_LINE>North Jersey Coast Line</TRAIN_LINE>
```

```
<STATION_POSITION>1</STATION_POSITION>
<LINEABBREVIATION>NJCL</LINEABBREVIATION>
< INLINEMSG >This is a test for Inline MSG</ INLINEMSG >
<STOPS>
<STOP>
<NAME>Newark Penn Station</NAME>
<TIME>12/4/2012 4:06:46 PM</TIME>
<PICKUP>Pick Up Only</PICKUP>
</STOP>
<STOP>
<NAME>Secaucus Upper Lvl</NAME>
<TIME>12/4/2012 4:14:16 PM</TIME>
<DROPOFF>Discharge Only</DROPOFF>
</STOP>
<STOP>
<NAME>New York Penn Station</NAME>
<TIME>12/4/2012 4:27:01 PM</TIME>
</STOP>
</STOPS>
</ITEM>
</ITEMs>
</STATION>
```

STATION NAME	STATION 2CHAR
Aberdeen-Matawan	AM
Absecon	AB
Allendale	AZ
Allenhurst	AH
Anderson Street	AS
Annandale	AN
Asbury Park	AP
Atco	AO
Atlantic City Rail Terminal	AC
Avenel	AV
Baltimore Station	BL
Basking Ridge	BI
Bay Head	BH
Bay Street	MC
Belmar	BS
Berkeley Heights	BY
Bernardsville	BV
Bloomfield	BM
Boonton	BN
Bound Brook	BK
Bradley Beach	BB
Brick Church	BU
Bridgewater	BW
Broadway-Fairlawn	BF
BWI Thurgood Marshall Airport	BA
Campbell Hall	CB
Chatham	CM
Cherry Hill	CY
Clifton	IF
Convent Station	CN
Cranford	XC
Delawanna	DL
Denville	DV
Dover	DO
Dunellen	DN
East Orange	EO
Edison	ED
Egg Harbor City	EH
Elberon	EL
Elizabeth	EZ
Emerson	EN
Essex Street	EX
Fanwood	FW
Far Hills	FH
Finderne	FE
Garfield	GD
Garwood	GW
Gillette	GI
Gladstone	GL
Glen Ridge	GG

Glen Rock	RS
Glen Rock Boro Hall	GK
Great Notch	GA
Hackettstown	HQ
Hamilton	HL
Hammonton	HN
Harriman	HR
Hawthorne	HW
Hazlet	HZ
High Bridge	HG
Highland Avenue	HI
Hillsdale	HD
Hoboken	HB
Hohokus	UF
Jersey Avenue	JA
Kingsland	KG
Lake Hopatcong	HP
Lebanon	ON
Lincoln Park	LP
Linden	LI
Lindenwold	LW
Little Falls	FA
Little Silver	LS
Long Branch	LB
Lyndhurst	LN
Lyons	LY
Madison	MA
Mahwah	MZ
Manasquan	SQ
Maplewood	MW
Metro Park	MP
Metuchen	MU
Middleton NJ	MI
Middletown NY	MD
Millburn	MB
Millington	GO
Montclair State U	UV
Monmouth Park	MK
Montclair Heights	HS
Montvale	ZM
Morris Plains	MX
Morristown	MR
Mount Olive	OL
Mount Tabor	TB
Mountain Avenue	MS
Mountain Lakes	ML
Mountain Station	MT
Mountain View	MV
Murray Hill	MH
Nanuet	NN
Netcong	NT
Netherwood	NE
New Brunswick	NB

New Carrollton Station	NC	
New Providence	NV	
Newark Airport	NA	
Newark Broad Street	ND	
Newark Penn Station	NP	
North Branch	OR	
North Elizabeth	NZ	
New Bridge Landing	NH	
Oradell	OD	
Orange	OG	
Ottisville	OS	
Park Ridge	PV	
Passaic	PS	
Paterson	RN	
Peapack	PC	
Pearl River	PQ	
New york Penn Station	NY	
Pennsauken	PN	
Perth Amboy	PE	
Philadelphia	PH	
Plainfield	PF	
Plauderville	PL	
Point Pleasant Beach	PP	
Port Jervis	PO	
Princeton	PR	
Princeton Junction	PJ	
Radburn-Fairlawn	FZ	
Rahway	RH	
Ramsey	RY	
Ramsey Rt 17		17
Raritan	RA	
Red Bank	RB	
Ridgewood	RW	
River Edge	RG	
Roselle Park	RL	
Rutherford	RF	
Salisbury Mills-Cornwall	CW	
Secaucus Upper Lvl	SE	
Secaucus Lower Lvl	TS	
Short Hills	RT	
Sloatsburg	XG	
Somerville	SM	
South Amboy	CH	
South Orange	SO	
Spring Lake	LA	
Spring Valley	SV	
Stirling	SG	
Suffern	SF	
Summit	ST	
Teterboro	TE	
Towaco	TO	
Trenton	TR	
Tuxedo	TC	

Union	US	
Upper Montclair	UM	
Waldwick	WK	
Walnut Street	WA	
Watchung Avenue	WG	
Watsessing Avenue	WT	
Washington Station	WS	
Wayne-Route 23		23
Westfield	WF	
Westwood	WW	
Wilmington Station	WI	
White House	WH	
Wood Ridge	WR	
Woodbridge	WB	
Woodcliff Lake	WL	