Component				Source	
Service	Function	Sub-Function	Requirement		
Inter-Jurisdictional Transit System					
RMR					
	DRO				
		RSA			
		8.3.3.011	A capability to delay connecting vehicle departures shall be provided when travelers with connecting rides are late.	Derived	
		8.3.3.012	Travelers shall be notified if they missed a travel connection.	Derived	
TPD					
	MTPD				
		CD			
		2.1.3.001	Directions shall be computed from any user-specified source to any user-specified destination.	MnE 4.1, USR 1.3.1.1,	
		2. I.3.002	Directions shall be computed for transit transfer and connections.	MnE 4.3.5	
		2.1.3.003	Directions shall be based on a calculated route.	USR 1.3.2.2.2, GGO 3.5.	
		2.1.3.003.a	If the travel conditions option is selected in the route requirements, then directions shall be determined using current or forecast travel conditions.	USR 1.3.2.2.2, GGO 3.5.	
		2.1.3.006	If the travel conditions option is selected in the route requirements, then directions shall be determined using transit schedules.	MnE 4.6,USR 1.1.3.3.1,	
		2. 1.3.007	If the travel conditions option is selected in the route requirements, then directions shall be determined using transit schedule changes.	MnE 4.6, USR 1.1.3.3.1,	
		2.1.3.008	If the travel conditions option is selected in the route requriements, then directions shall be determined using transit system status.	MnE 4.6, USR 1.1.3.3.1,	
		2.1.3.009	If the travel conditions option is selected in the route requirements, then directions shall be determined using no pedestrian zone information.	MnE 4.6,USR 1.1.3.3.1,	
		2.1.3.010	If the travel conditions option is selected in the route requirements, then directions shall be determined using pedestrian event information.	MnE 4.6,USR 1.1.3.3.1,	

		Source
ub-Functio	n Requirement	
2.1.3.011	If the travel conditions option is selected in the route requirements, then directions shall be determined using business closure, opening, and move information.	MnE 4.6,USR 1.1.3.3.1,
2.1.3.012	Directions information shall include mode of travel.	Derived
2.1.3.013	Directions information shall include instructions text.	Derived
2.1.3.014	Directions information shall include travel distance.	Derived
2.1.3.015	Directions information shall include travel time.	Derived
2.1.3.016	Directions information shall include travel cost.	Derived
2.1.3.017	Instructions text shall include trip steps from origin to destination.	MnE 4.2,4.3, USR 1.3.1
2.1.3.018	Instructions text shall include route/street names.	MnE 3.7.1, GGO 1.10.2
2.1.3.019	Instructions text shall include which way to turn onto streets, roads, walkways and transit facilities.	USR 1.3.1.3
2.1.3.020	Instructions text shall include direction changes(turns, exits,lane changes,mode changes,transfers).	MnE 4.2.2
2.1.3.021	Instructions text shall include walking instructions.	Derived
2.1.3.022	Instructions text shall include waiting instructions (i.e., layover times between trip segments).	Derived
2.1.3.024	Instructions text shall include transportation modes available.	MnE 4.3.4, GGO 10.5.3,
2.1.3.025	Instructions text shall include transportation mode boarding, departure and transfer points	MnE 4.3.4, GGO 9.5.2,
2.1.3.026	Instructions text shall include public transit vehicle/route identification.	MnE 4.3.5,USR 1.1.1.1.
2.1.3.027	Instructions text shall include connecting transit route information.	MnE4.3.4, USR 1.1.1.1.
2.1.3.028	Instructions text shall include next transit stop information.	Sbus 59-4.3
2.1.3.029	Instructions text shall include transit schedules.	USR 1.1.1.1.2, 1.3.2.1, 1

Component

Service Function

mponent			Source
Service Function St	ub-Function	Requirement	
	2.1.3.030	Instructions text shall include instructions on how to use the mode (transit).	MnE 3.7.5,6.4.6
	2.1.3.031	Travel distance shall include travel distances for each segment.	MnE 4.3.2
	2.1.3.032	Travel distance shall include total travel distance.	MnE 4.3.3
	2.1.3.033	Travel time shall include travel times for each segment.	MnE 4.3.2
	2.1.3.034	Travel time shall include total travel time.	MnE 4.3.3
	2.1.3.035	Travel cost shall include transit fares.	MnE 3.7.2,4.3.3, USR 1
	2.1.3.038	Travel cost shall include total trip costs.	MnE 3.7.2,4.3.3
	2.1.3.039	Directions shall be available for the metro-wide area.	MnE 4.7.1
	2.1.3.040	Directions shall be available for a multi-city area.	MnE 4.7.1
	2.1.3.041	Directions shall be available for a multi-county area.	MnE 4.7.1
	2.1.3.044	Directions shall be available for a user-specified geographic area.	MnE 4.7
	2.1.3.045	Directions changes shall be clearly noted with advance warning so that users can prepare for the change.	MnE 4.2.1,4.9.2
I	DR		
	2.1.2.001	A route shall be determined based on route requirements.	MnE 3.2, USR 1.1.3.1.2,
	2.1.2.002	A route shall be determined based on predicted demand on the transportation system by that user.	USR 1.3.4.3.1
	2. I .2.003	Route information shall include total route travel time.	MnE 3.5.3,3.7.1,4.3.3
	2.1.2.004	Route information shall include total route travel distance.	MnE 3.7.2.
	2.1.2.005	Route information shall include segment travel times.	MnE 3.7.1,4.3.2
	2.1.2.006	Route information shall include segment travel distances.	MnE 3.7.1,4.3.2

Component

221 15-Jan-97

Sı	ıb-Function	Requirement	Source
	2.1.2.007	Route information shall include segment names(streets, roads, highways).	MnE 3.7.1
	2.1.2.008	Route information shall include estimated arrival time.	MnE 3.7.1
	2.1.2.012	Route information shall include routes highlighted on a map.	MnE 4.3
	2.1.2.012a.	If the travel conditions option is selected in the route requirements, then a route shall be determined using current or forecast travel conditions.	MnE 4.3
	2.1.2.015	If the travel conditions option is selected in the route requirements, then a route shall be determined using public transit fleet schedules.	USR 1.2.2.1.2.1, GGO 3.
	2.1.2.016	If the travel conditions option is selected in the route requirements, then a route shall be determined using transit schedule change information.	USR 1.2.2.1.2.1, GGO 3.
	2.1.2.017	If the travel conditions option is selected in the route requirements, then a route shall be determined using transit system status	USR 1.2.2.1.2.1, GGO 3.
	2.1.2.018	If the travel conditions option is selected in the route requirements, then a route shall determined using no pedestrian zones information.	USR 1.2.2.1.2.1, GGO 3.
	2.1.2.019	If the travel conditions option is selected in the route requirements, then a route shall be determined using pedestrian event information.	USR 1.2.2.1.2.1, GGO 3.
	2.1.2.020	If the travel conditions option is selected in the route requirements, then a route shall be determined using business closure, opening, and move information.	USR 1.2.2.1.2.1, GGO 3.
	2.1.2.023	Link reference model data shall be accepted from multiple sources including public agencies.	Derived
	2.1.2.024	Link reference model data shall be accepted from multiple sources including information service providers.	e Derived
	2.1.2.026	Link reference model data shall be accepted into the system via electronic entry (standard form)	Derived
	2.1.2.028	A link reference model shall be stored and maintained.	Derived
	2.1.2.029	Public transit fleet schedules shall be stored, updated and deleted.	USR 2.2.3.1.1

MTTP

Component

Service Function

BTI

Component	Source		
Service Function S	ub-Function	Requirement	
	2.2.2.001	A tailored trip itinerary shall be compiled based on user-specific criteria.	USR 1.1.3.1.1, 1.1.3.1.4
	2.2.2.003	A tailored trip itinerary shall include directions.	MnE 3.7,4.3
]	DTPD		
	2.2.3.053	Alternate route(s)/route segment(s) shall be determined based on travel conditions changes.	MnE 3.5.1,USR 1.1.2.1.