

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)


SYRIAN TELECOMMUNICATIONS ESTABLISHMENT (STE)  
THE SYRIAN ARAB REPUBLIC

THE STUDY  
ON  
NATIONAL TELECOMMUNICATIONS NETWORK  
EXPANSION PLAN  
IN  
THE SYRIAN ARAB REPUBLIC

FINAL REPORT  
SUPPORTING REPORT

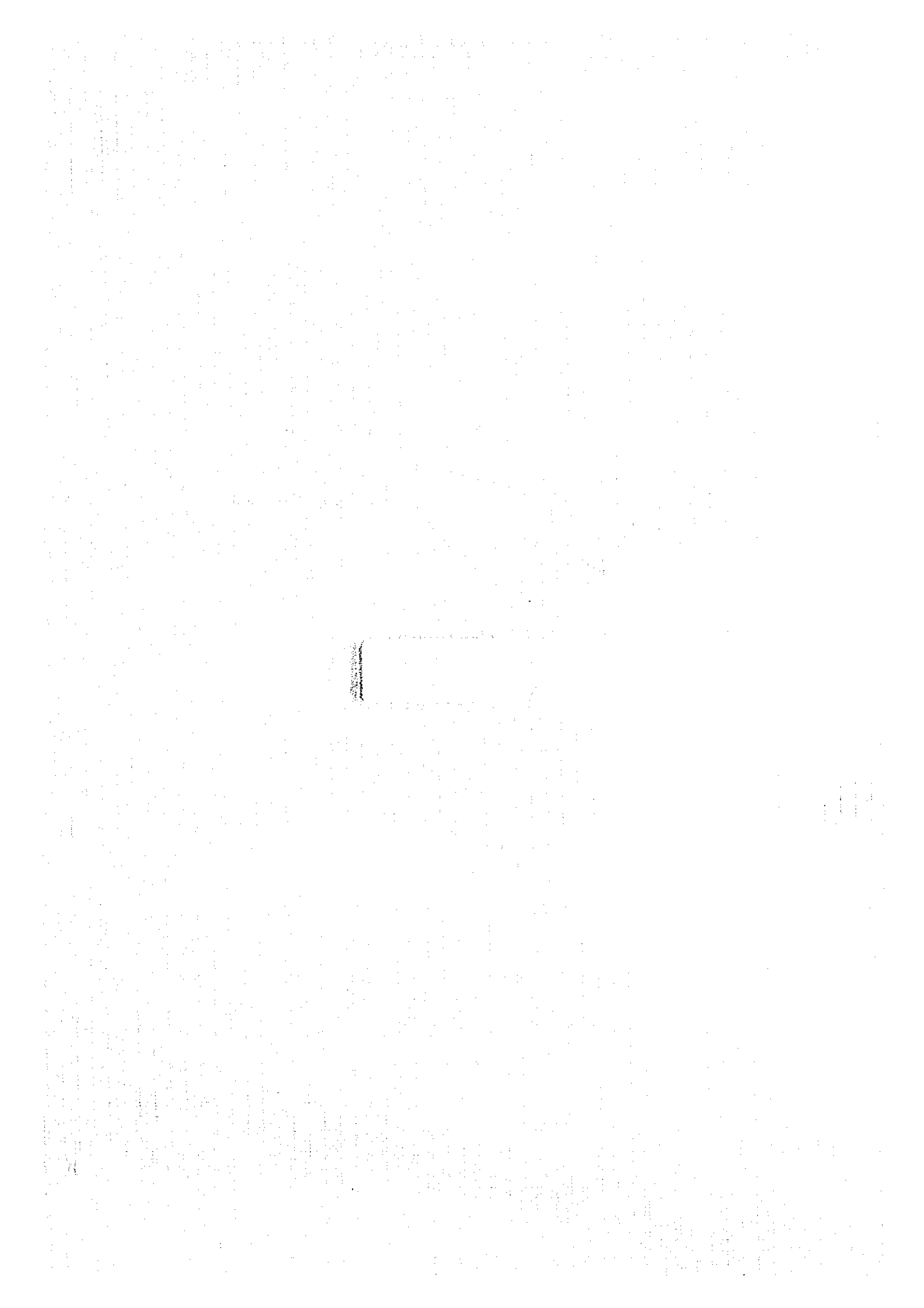
AUGUST, 1996

NTT INTERNATIONAL CORPORATION  
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**SUPPORTING 1 MASTER PLAN**

SUPPORTING 1-2    PRESENT STATE OF TELECOMMUNICATION  
IN SYRIA

S1-2-1

**Detailed Data of Balance Sheet**



DETAILED DATA OF BALANCE SHEET

ACCOUNT'S NO.	ACCOUNT'S NAME	SUBTOTAL FUNDS	TOTAL FUNDS
2111	CAPITAL (GOVERNMENTAL SECTOR)	2540 000 000,00	
2121	UNPAID CAPITAL	857326113,31	
21	PAID CAPITAL	1682673886,69	
221	LEAGAL RESERVE	1892377148,97	
227	FORWARD SURPLUS	1169317601,43	
22	RESERVES	3061694750,40	
23230	D. FAX	122590,78	
23231	D.EXCHANGES BUILDINGS	77836541,65	
23232	D.STATIONS BUILDINGS	28849092,08	
23233	D. STORES BUILDINGS	2903770,20	
23234	D. GARAGES BUILDINGS	350536,20	
2324	D. BUILDINGS & ADMINISTRATIVE UTILITIES	2806668,72	
232	BUILDINGS & ESTABLISHMENTS' DEPRICIATION		122869199,63
23311	D.CITIES NETS	780751967036	
23312	D. NETS BETWEEN CITIES	319749742,63	
23313	D.WIRELESS COMMUNICATION EQUIPMENT	189355725,66	
23314	D.WIRELESS EQUIPMENTS FOR MICROWAVE	117189779,63	
23315	D. EARTH STATION EQUIPMENT FOR CONCENTRALS	78382667,71	
23321	D. LOCAL AUTOMATIC EXCHANGES	363528918,22	
23322	D. AUTOMATIC EXCHANGES BETWEEN CITIES	32688848,85	
23323	D.SEMI AUTOMATIC & MANUAL EXCHANGES	67738366,04	
23324	D. TELEPHONE ROOMS	27231347,04	
23325	D. WIRELESS COMMUNICATION STATION	3648704,89	
23326	D.TELEGRAPH OFFICES EQUIPMENT	2975 2245,59	
23327	D. TELEX DEPARTMENT EQUIPMENT	18568134,38	
23328	D. SUBSCRIBERS TELEPHONE EQUIPMENT	78161260,60	
23329	D. EQUIPMENT OF TELEX SUBSCRIBERS	378820,21	
23331	D. CONDITIONING & HEATING EQUIPMENT	10593763,34	
23332	D. ELEVATORS	98194,80	
23333	D. WORKSHOPS & GARAGES EQUIPMENT	119102,20	
23334	D. POWER GENERATORS	6657642,94	
23335	D. MEASURE & EXPERIMENTS EQUIPMENT	12081072,15	
23336	D. SIENTIFIC REASERCH EQUIPMENT	961159,31	
233	D.EQUIPMENTS & MACHINES	2137737463,55	
2341	D.TRANSPORTING CARS	29792382,35	
2342	D. CARS	17506878,66	
2347	D.LOCOMOTIVES & WINCHES	6669666,22	
23491	D. MOTOR-CYCLE	2319720,35	
23492	D.ORDINARY CYCLE	14440,88	
234	D. TRANSPORTATION MEANS		5630388,46
23611	D.FURNITURE	21781606,75	

23621	D. TYPE WRITERS	3032109,93	
23622	D. CALCULATORS	5424165,32	
23623	DEPRECIATION OF COMPUTERS	3993210,38	
23624	D. MONEY COUNTING MACHINES	412100,00	
236251	D. TELEVISIONS & REFRIGIRATORS EQUIPMENT	36911020	
23631	DEPRICIATION OF PHOTO MACHINES	2370875,16	
2365	D. THE EQUIPMENTS	5129,88	
236	D. FURNITURE & OFFICES EQUIPMENT		37075108,62
2411	INCOME TAX PROVISION	2211027472,05	
2491	PROVISIONS OF DISCHAREGES COMPENSATIONS	702609,27	
24	PROVISIONS	2212730081,32	
2511	LOAN ORIGIN	2399591011,00	
25112	LOAN INTEREST	2230831634,43	
251	LOCAL LOANS	4630422645,43	
2521	INTERNATIONAL BANK FOR DEVELOPMENT	87247038,74	
2522	FRENCH LOAN	30542180,45	
25230	KWAITY LOAN 401 FOR CONTRACT 40	161404999,00	
2523	SODITEL LOAN	738875,26	
2524	ARABIC SAUDI BANK'S LOAN	16955460,43	
2525	GERMAN LOAN 123-A	364247,50 -	
2526	GERMAN LOAN 2-A	2095957,93	
2527	KWAITY LOAN 331-A	4897949,92	
2528	FRENCH LOAN 82-A	13811070,16	
2529	LOAN OF ARABIC KWAITY UNION	19564409,95	
252	EXTERNAL LOANS		336893694,34
2530	KWAITY LOAN 401 CONTRACT 40-A	2501731000,00	
2531	KWAITY LOAN 404 CONTRACT 150-A	1549742642,40	
2532	KATAR LOAN	357137357,24	
253	KWAITY LOANS	4408610999,64	
26112	FAX	57535,00	
26111	DEPOSITS OF EXECUTED PROJECTS FOR OTHERS	48045889,39	
26112	PUBLIC MAIL ESTABLISHMENT	9853053,52	
261141	PUBLIC LOAN GENERAL CREDIT CASE ( CO-AXIAL CABLE)	710813,75	
26114	GENERAL CREDIT CASE	25153455,09	
26115	TELEVISION & BROADCASTING	27209913,00	
26116	MATERIALS & EQUIPMENT SUPPLIER	5178228818,00	
26151	TELEPHONE CREDITORS OUTSIDE THE COUNTRY	72151439,93	
26152	TELEX CREDITORS OUTSIDE THE COUNTRY	3955911,71	
26153	TELEGRAPH CREDITORS OUTSIDE THE COUNTRY	197673,34	
261	SUPPLIERS	5365564502,73	
26252083	PAYMENT ORDERS OF CONTRACT 1-83	61627,57	
262	PAYMENT PAPERS	61627,57	
26310	FAX SECURITIES	3232450,00	
26311	TELEPHONE INSURANCES	303928869,60	
26312	TELEX INSURANCES	17095651,85	
26313	TELEGRAPH INSURANCES	471492,53	
263141	VARIOUS DEPOSITS & INSURANCES	350479318,87	
263142	DEPOSITS OF GENERAL CREDIT BANK	2697306,61	
263144	DEPOSITS IN EXCHANGE FOR PROJECTS LOANS	289285,65	
263145	CO-AXIAL CABLE DEPOSITS	21148,56	

26321	INCOME TAX	29646887,73	
26322	FINANCE STAMP ON SPENDING ORDERS	670695,18	
26323	FINANCE STAMP ON LISTS	4738540,44	
26324	FINANCE STAMP ON LISTS	1145019,14	
26325	FAX STAMP	4680,00	
26351	SOCIAL INSURANCE INSTITUTION	17357619,56	
26352	INSURANCE & WAGES INSTITUTION	3779849,74	
26391	MILITARY EFFORTS	572757,15	
26392	COOPERATION BANK	5642770,85	
26393	TUBERCULOSIS FIGHTING ASSEMBLY	49873,40	
26394	PROVINCES COUNCIL	12380051,45	
26396	ENGINEERS ASSOCIATION	433134,25	
26397	ENGINEERS ASSOCIATION COMMITTEE	2661904,10	
26398	LIFE INSURANCE	74658,35	
26399	OTHER DISTRAINED	7601841,47	
263	VARIOUS CRDITORS		764975806,48
2641	CREDIT ACCOUNT OF TELEPHONE BILLS	993000,00	
2642	CREDIT ACCOUNT OF TELEX BILLS	35000,00	
264	VARIOUS CREDIT ACCOUNTS		1028000,00
2721	CREDITORS OF UNPAID EXCHANGE ORDERS	123301104,86	
2722	PAYMENT ORDERS ISSUED BEFORE 6/7	22446,18	
2723	PAYMENT ORDERS EXECUTED FOR OTHERS	1200482,00	
272	VARIOUS CREDITORS		124524033,04
27461	PREVIOUS DUE EXPENSES	1831022,24	
274	DUE CURRENT & APPROPRIATE EXPENSES		1831022,24
2759	CURRENT & APPROPRIATE RECEIVED INCOMS	17595026738,25	
275	CURRENT & APPROPRIATE RECEIVED INCOMS		<u>1795026738,25</u>
2	DEMANDS		<u>26739004648,39</u>

INCOME TAX

3756275492,98		PROFITS	
	23536315,00	+ ADD CONSUMPTION OF BUILDING & ESTABLISHMENT	
	<u>5771043,70</u>	+ ADD REAL ESTATE INCOME TAXES	
<u>29307358,70</u>			
3785582851,68			
		CREDITS	
	1234677,90	RECEIVABLE INTERESTS	
	<u>28140656,25</u>	RENTAL VALUE 5% FROM BUILDINGS VALUE	
<u>29375334,15</u>			
3756207517,53		TAXABLE AMMOUNT	
<u>AMMOUNT</u>		<u>TAX</u>	<u>TAX CALCULATION</u>
1000 000,00		299200,00	FROM 10-----40%
<u>3755207517,53</u>		<u>1689843382,88</u>	45%
		1690142582,88	TAX TOTAL
3756207517,53		<u>507042774,86</u>	+ 30% MILITARY EFFORTS
		<u>2197185357,74</u>	TOTAL DUE ON THE INSTITUTION





S1-2-2

Report of Annual Depreciation According to Numbers of  
City Accounts at the End of December 1994



**REPORT OF ANNUAL DEPRECIATION  
ACCORDING TO NUMBERS OF CITY ACCOUNTS**

AT THE END OF 12 1994

ESTABLISHMENTS	DEPRECIATION OF THIS YEAR		DEPRECIATION OF LAST YEAR		DEPRECIATION UNTIL THIS DATE		REMAINS	DEPRECIATION RATE
	ORDINARY	---	ORDINARY	---	ORDINARY	---		
11491	MOTOR CYCLES							
24961258,85	67672,17	197388,84	2087315,48	2154987,65	19738888,84	341138,20	20,00	
11492	CYCLES (ORDINARY)							
14440,88	1443,24	14440,88	2886,48	1440,88	4329,72		10,00	
1161	FURNITURE							
38837303,42	2231691,78	416638,84	14358418,02	16590109,80	780137,40	22247193,62	20,00	
1162	TYPE WRITERS							
3648704,89	182435,16	3648704,89	182435,16	3648704,89	364870,32		25,00	
113226	EQUIPMENT OF TELEGRAPH OFFICES							
29752245,59	3719030,64	27952245,59	14876122,56	29752245,59	18595153,20		10,00	
113227	TELEX DEPARTMENT EQUIPMENT							
18569851,28	23984,04	916500,48	18496184,06	854427,60	1770928,08	49683,18	20,00	
113228	SUBSCRIBERS EQUIPMENT TELEPHONE- GENERAL FAX							
78200877,59	6999,96	7812437M76	78131960,68	62499502,08	70311939,84	61916,75	25,00	
113229	EQUIPMENT OF TELEX SUBSCRIBERS (GENERAL)							
376470,25	2349,96	45883,80	371770,17	183535,20	229419,00	2350,12	25,00	
113230	FAX EQUIPMENT							

919305,00									
113231	HEATING & CONDITIONING EQUIPMENT								
17555763,50	491861,72	383135,52	8624174,86	382375,08	9116036,58	765510,60			8439726,92
113232									
178534,80	8926,80		71414,40		80341,20				98193,60
113233	EQUIPMENT OF GARAGES & WORKSHOPS								
119102,20	119102,20	119101,12	119102,20	119101,12	119102,20	23820,24			30,00
113234	POWER GENERATORS								
12719193,82	268200,36	262238,52	5337487,91	196775,40	5605688,27	459013,92			7113505,55
113235	EXPERIMENT & MEASUREMENT EQUIPMENT								
55946997,79	307274,70	208752,84	6420213,45	165145,44	6727488,15	373898,28			49219509,64
113236	SCIENTIFIC RESEARCH EQUIPMENT								
960459,25	699,96	47672,88	959059,03	47672,88	959758,99	95345,76			700,36
1141	TRANSPORTATION CARS								
36902718,90	1116601,16	2219848,92	26664899,24		27781500,50	2219848,92			9121218,40
1142	RIDDING CARS								
47741456,01	622269,93	709776,60	9493292,96		10115562,89	709776,60			37623893,12
1147	WAGONS & TRAILERS & WINCHES								
6869438,50	103228,51	603166,20	6327711,62		6530940,13	603166,20			338498,37

ESTABLISHMENT DEPRECIATION	(THIS YEAR'S DEPRECIATION) ORDINARY	LAST YEAR'S DEPRECIATION) ORDINARY	(DEPRECIATION UNTIL THIS DATE) ORDINARY	REMAINS	RATE OF
11491	MOTOR CYCLES 2496125.85 6767201.7	197388.84	2154987.65	341138.20	20.00
11492	CYCLES (ORDINARY) 14440.88	14440.88	14440.88	4329.72	10.00
1161	FURNITURE 38837303.42 2231691.78	416658.84	16590109.80	22247193.62	20.00
11621	TYPE WRITERS 327824.81 123404.80	248259.60	2752075.13	535549.68	20.00
11622	CALCULATORS 6121355.86 683819.12	213172.44	4138202.20	1983153.66	20.00
11623	ELECTRONIC COMPUTERS 9651531.00 928738.08	206428.02	1135166.10	8516364.90	20.00
11624	MONEY COUNTING MACHINES 1398000.00 63600.00	5300.00	68900.00	1329100.00	20.00
116251	BARDA REFRIGERATORS + TELEVISION SETS 55682.00 11136.36	3502.12	14638.48	41043.52	20.00
11631	PHOTO COPYING MACHINES 3961875.00 693470.04	98400.00	791870.04	3170004.96	20.00

116311	PHOTO COPYING MACHINES	465800,00							20,00
1165	EQUIPMENT	25650,00							20,00
TOTAL		3320809032,45	147327726,16	33473602,08	1677295805,87	95812932,92	1824623532,03	129287535,00	1496185500,42

SI-2-3

**Existing and Planned Customers of Pilot PSPDN, May 1995**





S1-2-3 Existing and Planned Customers of Pilot PSPDN, May 1995

ORGANISATION	Damas			Aleppo			Homs			Lattakia			Direzzor			Dara			Sweida			Tartous			Hama			Raka			Kamishli			Hasaka			Idfeb			Quinetra					
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C			
(Legend: Next page)																																													
1 Embassy	1	1	1																																										
2 Blank																																													
3 Ministry of Economy	2	2	2	X																																									
4 Min of Social Security	4	4	4	2	2	2	LL	LL	LL																																				
5 Manufacturer	1	1	1	DL	DL	DL																																							
6 Political Party	2	2	2	LL	LL	LL																																							
7 *	3	3	3	LL	LL	LL																																							
8 *	1	1	1	LL	LL	LL																																							
9 *	1	1	1	LL	LL	LL																																							
10 Travel Agency	1	1	1	LL	LL	LL																																							
11 InforResearch (Arabic)	2	2	2	LL	LL	LL																																							
12 Min of Education	2	2	2	LL	LL	LL																																							
13 Bank	7	7	7	LL	LL	LL	3	3	3	LL	LL	LL																																	
14 Min of Agriculture	1	1	1	LL	LL	LL																																							
15 Syriah Oil	12	12	12	LL	LL	LL																																							
16 Investment Company	1	1	1	LL	LL	LL																																							
17 Investment Company	1	1	1	DL	DL	DL	X																																						
18 Importer/Distributor	1	1	1	DL	DL	DL																																							
19 Food Processing	1	1	1	LL	LL	LL																																							
20 Min of Environment	1	1	1	LL	LL	LL																																							
21 Min for Agriculture	1	1	1	DL	DL	DL																																							
22 Mining Research	1	1	1	X	X	X																																							
23 News Agency	1	1	1	LL	LL	LL																																							
24 Bank	2	2	2	LL	LL	LL																																							
25 Government	1	1	1	LL	LL	LL																																							
26 Internat Supplier	1	1	1	DL	DL	DL																																							
27 Min of Foreign Affairs	1	1	1	N																																									
28 STE	1	1	1	DL	DL	DL																																							
29 STE	1	1	1	DL	DL	DL																																							
30 STE	1	1	1	DL	DL	DL																																							
31 Blank	3	3	3	LL	LL	LL																																							
32 Min of Agrirringation	1	1	1	LL	LL	LL																																							
33 Textile Manufacturer	1	1	1	LL	LL	LL																																							
34 Bank	1	1	1	LL	LL	LL																																							
35 Arabic Culture Center	1	1	1	DL	DL	DL																																							
36 Travel Agent	1	1	1	DL	DL	DL																																							
37 Bank	34	34	34	LL	LL	LL																																							
38 Dam University	2	2	2	LL	LL	LL																																							
39 Hotel	1	1	1	LL	LL	LL																																							
40 Chamber of Commerce	1	1	1	X	X	X																																							

S1-2-3 Existing and Planned Customers of Pilot PSPDN, May 1995

ORGANISATION	Damas			Aleppo			Homs			Lattakia			Direzor			Dara			Sweida			Tartous			Hama			Rake			Kamishil			Hasaka			Idfeb			Quinetra								
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	1	2	3	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C									
41. Gov Energy research	1	LL	N				1	LL	N	1	LL	N	1	LL	N	1	LL	N	1	LL	N																											
42. Oil Drilling																						1	LL	N																								
43. Min for Finance	3	LL	N	1	DL	N				1	DL	N																																				
44. Hospital	1	DL	I																																													
45. Assad Library	1	LL	I																																													
46. Gov (Agn Research)				1	X	I																																										
47. Min for Industry	1	DL	N																																													
48. Chamber of Commerce	1	DL	N																																													
49. Retail Bank	1	LL	N	6	DL	N	3	DL	N	3	DL	N	3	DL	N	2	DL	N	1	DL	N	4	DL	N	5	DL	N	2	DL	N	3	DL	N	5	DL	N	1	DL	N									
50. Retail Bank	13	DL	N																																													
51. Hospital (Aleppo)				1	DL	N																																										
52. Min for Health	1	X	N	1	X	N	1	X	N	1	X	N	1	X	N	1	X	N	1	X	N	1	X	N	1	X	N	1	X	N	1	X	N	1	X	N	1	X	N	1	X	N	1	X	N	1	X	N
53. Travel Agent	1	LL	X																																													
54. Library	1	DL	N																																													
55. Construction Company	1	DL	N																																													
56. Oil Distributor	4	LL	N																																													
57. Individual	1	DL	I																																													
58. Individual	1	DL	X																																													
59. STE	1	DL	X																																													
60. STE	1	DL	X																																													
61. Travel Agent	1	DL	X																																													
62. Construction Company	2	LL	N	1	LL	N	1	LL	N	1	LL	N	1	LL	N	1	LL	N	1	LL	N	1	LL	N	1	LL	N	1	LL	N	1	LL	N	1	LL	N	1	LL	N	1	LL	N	1	LL	N			
63. Car Retailer	1	DL	I																																													
64. National TV Broadcast	2	LL	N																																													
65. Embassy	1	DL	I																																													
66. UNICEF	X	X	X																																													
67. STE	2	LL	N																																													
68. Gov (Agn Research)				2	LL	I																																										
A : Number of Circuits																																																
B : Access Method	LL : Leased Line																																															
C : Class of Service	DL : Dial - Up																																															
	N : National																																															
	I : International																																															
	NI : National/International																																															
	X : Not Specified																																															
	* : Planned																																															

SI-2-4

**Coaxial Cable Transmission Systems**



## S1-2-4 COAXIAL CABLE TRANSMISSION SYSTEMS

### 1. Syria(Tartous)-Greek(Crete) Submarine Cable Project

Distance: 1190km(submarine cable)+ 6km(Syrian land cable)+ ?km(Greek land cable)

Type of system: Analog, 5MHz 480ch/sys

Manufacturer: Cit-Alcatel

Redundancy: 180ch (vacant)

Used capacity: 300ch used capacity

Number of repeaters: 53 repeaters, 3 equalizers

Inauguration date: 1981

### 2. Tadmor-Iraqi border Project

This project connects Tadmor, T3, T2, Abukamal in Syria and Alkaim in Iraq

Distance: Total length 261km

Type of system: 12MHz analog from 300kHz to 6MHz for phone  
from 6MHz to 12MHz for TV

TV transmission is from Tadmor to Abukamal and Alkaim

Manufacturer: F and G cooperation with Philips  
(Holland and German)

Inauguration date: 8-1986

Type of coaxial cable: 4tubes (1.2/4.4 mm) with 2qx1.2+1.2+1.2  
(note: q is quad, hereafter)  
2 tubes are used and 2 tubes are vacant.

#### Number of repeaters:

Palmyra-T3	45km	22 repeaters
T3-T2	131km	65 repeaters
T2-Abukamal	74km	37 repeaters
Abukamal-Alkaim	11km	5 repeaters

Note: buried directly without ducts except inside cities.  
Repeaters are installed inside manholes.

#### Number of circuits:

180ch(3SG) between Tadmor and Alkaim ends at SG level at both sides.  
It can be used to connect Damascus-Baghdad or to pass communication from Syria to other areas in Iraq or vice versa by using other projects.

section	No of circuits	inservice	vacant (Redundancy)
Damascus-Abukamal	60	18	42
Homs-T3	24	1	23
Homs-T2	24	0	24
Homs-Abukamal	60	6	54
Homs-Alkaim	12	0	12
Tadmor-T3	12	8	4
Tadmor-T2	24	3	21

Tadmor-Abukamal	12	1	11
Tadmor-Alkaim	12	0	12
T3-T2	12	4	8
T3-Abukamal	12	0	12
T3-Alkaim	24	0	24
T3-T4	12	2	10
T2-Abukamal	12	5	7
T2-Alkaim	12	0	12
Abukamal-Alkaim	12	0	12

T4, T3, T2 (petrol stations) inhabitants may be less than 100.

Abukamal and Alkaim are small villages.

T4, T3, T2 have their own switches.

Most of the circuits are used by other subscribers (not STE).

(Note: the circuits are dedicated circuits or leased circuits.)

**3. 6MHz systems which uses coaxial cables, to connect following cities; Damascus, Nabek, Homs, Tartous, Banias, Lattakia, Hama, Sarakeb, Aleppo, T4, Tadmor(Palmyra)**

**Type of coaxial cables:** 4(1.2/4.4)mm + 5x0.9mm  
two are used for this project and other two are used for another project (digital system)

**Total distance:** 680.462km

**Type of system:** analog 6MHz 1260ch

**Manufacturer:** Cit Alcatel

**Total number of repeaters:** 196 type T, 27 type P

**Inauguration date:** 1978

**Distance and Number of repeaters:**

Section	distance	No of repeaters
Damascus A - Damascus B	5.297km	1T+0P
Damascus B-Nabek	79.690km	23T+3P
Nabek-Homs	80.167km	23T+3P
Homs-Tartous	88.780km	25T+4P
Tartous-Banias	35.660km	10T+1P
Banias-Lattakia	48.930km	14T+2P
Homs-Hama	48.411km	14T+2P
Hama-Sarakeb	87.225km	25T+4P
Sarakeb-Alepo	52.585km	15T+2P
Homs-T4	96.467km	28T+4P
T4-Tadmor	57.250km	18T+2P

**Number of circuits:**

section	capacity	national exchange (S.T.E)	other subscribers ***	vacant (Redundancy)
Damas-Nabek	96	25	71	0
Damas-Homs	120	18	102	0
Damas-Tartous	72	15	57	0
*Damas-Tartous	300	60(to Greek)	0	240
Damas-Lattakia	120	58	62	0
Damas-Hama	60	24	36	0
Damas-Sarakeb	12	0	12	0

Damas-Aleppo	240	60	180	0
*Damas-Aleppo	60	60(to Turkey)	0	0
Damas-Tadmor	12	0	12	0
Damas-T4	24	0	24	0
Damas-Deirezzor	6	28	32	0
Damas-Rakka	12	0	12	0
Damas-Hassakeh	12	0	12	0
Homs-Nabek	36	0	36	0
Homs-Tartous	120	48	72	0
Homs-Banias	24	0	24	0
Homs-Lattakia	60	31	29	0
Homs-T4	36	0	36	0
Homs-Tadmor	48	24	24	0
Homs-Hama	120	74	46	0
Homs-Sarakeb	24	0	24	0
Homs-Aleppo	108	0	60	48
T4-Tadmor	36	0	36	0
Tartous-Banias	60	0	60	0
Tartous-Latakia	120	76	44	0
Tartous-Hama	60	0	60	0
Banias-Latakia	60	21	39	0
Hama-Sarakeb	24	0	24	0
Hama-Aleppo	6	0	60	0
Hama-Lattakia	60	39	21	0
Aleppo-Sarakeb	36	0	36	0
Aleppo-Latakia	60	30	30	0
**Aleppo-Rakka	24	0	24	0
**Aleppo-Deirezzor	12	0	12	0
Aleppo-Tartous	12	0	12	0
**Aleppo-Hassakeh	12	0	12	0

**Note\*:**

The 60ch is at channel level in Damascus and at SG level in Tartous and Aleppo. It continues onto another project to Greek and Turkey.

**Note\*\*:**

These circuits coming on coaxial cable from Aleppo to Homs and continue from Homs to Rakka, Hassakeh, etc. on a micro wave project.

**Note\*\*\*:**

The circuits are dedicated circuits or leased circuits.

**4. Damascus-Zabadani coaxial cable project**

**Section:** Damascus-Zabadani

**Distance:** 48km

**Type of system:** analog

**Total number of circuits:** 120ch

**Type of Coaxial Cable:** 2tubes(1.2/4.4)mm+5x0.9mm

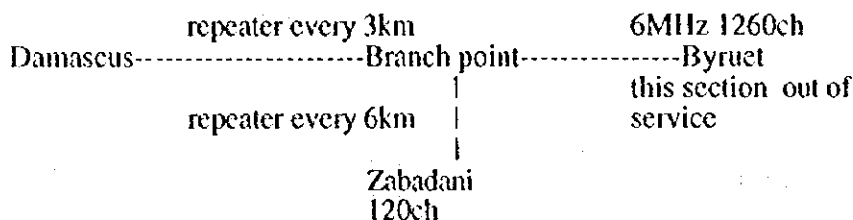
**Manufacturer:** Cit Alcatel

**Redundancy:** 17channels(vacant)

Used capacity: 30channels(national exchange)

73channels(another subscriber)

Number of repeater: 10+3(one every three km and then every six km)



Inauguration Date: 1975

5. 140Mbit/s system which uses coaxial cable to connect following cities: Damascus, Nabek, Homs, Hama, Sarakeb, Aleppo, Tartous, Baniyas, Latakia

This project uses the second two tubes from the same coaxial cable 4(1.2/4.4)mm +5x0.9mm mentioned above.

Total distance: 526.745km

Type of system: Digital, PDH, 1920ch

Manufacturer: SAT(French)

Inauguration date: 1983

Distance and Number of repeaters:

Section	distance	No of repeaters
Damascus A - Damascus B	5.297km	4
Damascus B-Nabek	79.690km	41
Nabek-Homs	80.167km	42
Homs-Tartous	88.780km	46
Tartous-Baniyas	35.660km	18
Baniyas-Lattakia	48.930km	25
Homs-Hama	48.411km	26
Hama-Sarakeb	87.225km	45
Sarakeb-Aleppo	52.585km	28

Number of circuits:

section	capacity	national exchange (S.T.E)	other subscribers **	vacant (Redundancy)
Damas-Nabek	150	120	30	0
Damas-Homs	540	0	210	330
Damas-Tartous	180	60(to Greek)	60	60
Damas-Baniyas	30	0	30	0
Damas-Lattakia	240	30	90	120
Damas-Hama	120	0	60	60
Damas-Sarakeb	60	0	60	60
Damas-Aleppo	600	0	60	540
Homs-Tartous	180	0	90	90



Homs-Banias	30	0	30	0
Homs-Lattakia	120	0	60	60
Homs-Hama	120	0	60	60
Homs-Sarakeb	60	0	60	0
Homs-Alepo	360	0	60	300
Tartous-Banias	60	0	30	30
Tartous-Latakia	180	0	90	90
Banias-Latakia	60	0	60	0
Hama-Sarakeb	120	0	60	60
Hama-Aleppo	120	0	30	90
Aleppo-Sarakeb	120	0	90	30
Aleppo-Latakia	180	0	60	120
*Aleppo-Sarakeb	120	120	0	0
-Maarrat Al Numan				

Note\*: coaxial cable for Aleppo-Sarakeb  
Micro Wave for Sarakeb-Naarrat Al Numan

Note\*\*: The circuits are dedicated circuits or leased circuits.



S1-2-5

**Micro Wave Transmission Systems**



## **SI-2-5 MICRO WAVE TRANSMISSION SYSTEMS**

### **1. Syria(Damascus)-Lebanon(Beirut) micro wave project**

**Section:** Damascus-Beirut  
**Distance:** 100km  
**Type of system:** analog 6GHz  
**Manufacturer:** Thomson CSF  
**Redundancy:** 12ch  
**Used capacity:** 168ch  
**Number of repeaters:** 3  
**Inauguration date:** 1986

**Note:** (1+1) system, one phone and one reserve  
Total capacity: 960ch

### **2. Syria(Aleppo)-Turkey(Adana) micro wave project**

**Section:** Aleppo-Adana  
**Distance:** 203.42km  
**Type of system:** analog 4GHz  
**Manufacturer:** Telettra  
**Redundancy:** 108ch  
**Used capacity:** 72ch  
**Number of repeater:** 3  
**Inauguration date:** 1980

**Note:** (2+1) system, one TV, one phone, and one reserve  
Total capacity: 960ch

### **3. Syria-Cyprus micro wave project**

**Section:** City in Cyprus-Hama in Syria  
**Distance:** 370km  
**Type of System:** analog 8GHz  
**Manufacturer:** Granger standard NEC  
**Redundancy:** none  
**Used capacity:** 60ch  
**Number of repeater:** 8  
**Inauguration date:** 1993

**Note:** (1+1) system, one phone and one reserve  
Total capacity: 120ch

**Note:** this project connects a city in Cyprus and Hama in Syria, then continues to Damascus by using another micro wave project.

### **4. Syria(Damascus)-Jordan(Amman) micro wave project**

**Section:** Damascus-Amman  
**Distance:** 209km for phone,  
215km for TV  
**Type of system:** analog 7GHz  
**Manufacturer:** Italtel  
**Redundancy:** none

Used capacity: 348ch  
 Number of repeater: 6 for phone  
 7 for TV

Inauguration date: 1979

Note: (2+1) system, one phone, one TV and one reserve  
 Total capacity: 960ch

(1) Section: Damascus-sweida  
 Distance: 93.248km  
 Redundancy: none  
 Used capacity: 96ch (52ch national exchange + 44ch another subscriber)  
 Number of repeater: 2

Note: (2+1) system one phone, one TV and one reserve  
 Total capacity: 960ch

(2) Section: Damascus-Jumah (TV only)  
 Distance: 103km  
 Number of repeater: 2  
 Note: (2+1) system Damascus-Areka  
 (1+1) system Areka-Jumah (400MHz UHF for sound and 7GHz for TV)

(3) Section: Damascus-Deraa  
 Distance: 138km  
 Redundancy: none  
 Used capacity: 84ch (45ch for national exchange and 39ch for other subscribers--  
 dedicated or leased circuits)  
 Number of repeater: 3  
 Note: (2+1) system for Damascus-Sweida  
 (1+1) system for Sweida-Deraa  
 Total capacity: 960ch

### 5. National micro wave project

Type of system: analog 1800ch  
 Manufacturer: NEC  
 Inauguration date: 1987

Number of circuits, Distance, and Number of repeaters:

Section	Distance	Redundancy	Used Capacity			No of Rep.
			N	IN	OS	
Damascus-Homs	152.52	24ch	68	19	309	3
Damascus-Hama	197.52	12ch	48	0	60	5
Damascus-Edlib	319.42	3ch	0	0	57	7
Damascus-Aleppo	371.02	96ch	150	30	324	8
Damascus-Latakia	308.02	0ch	54	26	124	6
Damascus-Tartous	237.92	0ch	0	***180	60	5
Damascus-Rakka	549.02	24ch	0	0	84	12
Damascus-Deirzozor	675.02	0ch	60	0	60	16
Damascus-T4	248.75	12ch	0	0	0	5
Damascus-Tadmor	302.14	11ch	0	0	1	7

Aleppo-Hama	155.6	12ch	28	0	20	2
Aleppo-Homs	200.6	12ch	48	0	60	4
Aleppo-Edlib	51.6	12ch	41	0	67	0
Aleppo-Latakia	145	24ch	59	0	37	2
Aleppo-Deirelzor	304.06	12ch	108	0	0	7
Aleppo-Hasskeh	426	12ch	0	0	48	10
*Aleppo-Kamichly	498	24ch	0	0	36	11
Aleppo-Rakka	178	8ch	96	0	16	3
Aleppo-Tabqua	133	24ch	0	0	12	2
**Aleppo-Albab	30	30ch	82	0	8	1
**Albab-Munbij	22.45	55ch	60	0	5	1
Homs-Hama	46.7	0ch	34	0	86	1
Homs-Latakia	157.5	0ch	81	0	39	3
Homs-Tartous	79.71	12ch	0	0	168	1
Homs-T4	91.45	12ch	0	0	24	1
Homs-Deirelzor	504.6	0ch	48	0	12	12
Homs-Todmor	144.77	0ch	60	0	0	3
T4-Todmor	53.39	0	0	0	24	1
Latakia-Hama	110.5	12ch	30	0	18	1
Latakia-Tartous	411.43	0ch	41	0	19	2
*Latakia-Banyas	58.	0ch	28	0	8	0
*Latakia-Djable	21.5	8ch	120	0	52	0
*Latakia-Kurdaha	26.1	12ch	120	0	48	0
**Latakia-Kassab	131.75	0ch	60	0	0	2
**Latakia-Rasbasit	51.19	0ch	60	0	0	2
*Tartous-Safita	50.21	0ch	****135	0	25	1
*Tartous-Banyas	74.04	0ch	11	0	25	2
Deirelzor-Mayadin	71.13	12ch	120	0	48	1
Deirelzor-Abukamal	151.08	12ch	120	0	288	4
*Deirelzor-Kamichly	273.35	0ch	0	0	60	7
*Hassakeh-Kamichly	78.44	12ch	55	0	53	2
**Hassakeh-Rasalain	73.69	12ch	0	0	48	1
Rakka-Tabqua	42.95	0ch	0	0	24	0
**Rakka-Talabiad	84.83	20ch	0	0	10	1
Mayadin-Abukamal	79.95	22ch	0	0	38	2
**Tadmor-Khnaifis	59.13	25ch	0	0	5	3
**Todmor-Sharkieh	38.07	25ch	0	0	5	1
**Munbij-Ainarab	52.7	25ch	0	0	5	1
**Munbij-Djarablous	33.0	20ch	0	0	10	1

Note\*: Total capacity for this section 960ch

Note\*\*: This section digital, total capacity 120ch???

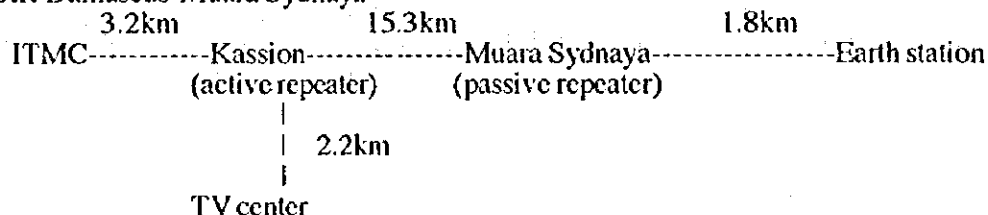
Note\*\*\*: Both sides end at SG level and three SGs are used as standby for coaxial cable.

micro(3SG)                      micro(3SG)  
 Damas-----Homs-----Tartous-----Greek  
           cox(5SG)                      cox(5SG)                      submarine(5SG)

Note\*\*\*\*: Homs-Safita 20ch for national exchange comes out of 135ch of this section.  
 Note\*\*\*\*\*: "N" is national exchanges, "IN" is international exchanges, and "OS" is other subscribers (This is dedicated circuits or leased circuits.)

### 6. Damascus(ITMC, TV center)-Mural Sydnaya(earth station) micro wave project

Section: Damascus-Muara Sydnaya



**Type of System:** analog 8Ghz  
**Manufacturer:** CSF Thomson(Alcatel-Telespac)  
**Redundancy:** 900ch  
**Used capacity:** 60ch  
**Number of repeater:** two  
**Inauguration date:** 1975

Note: (1+1) system, one phone one reserve, total capacity 960ch  
 (1+1) system, one TV one reserve  
 Note: BG(Basic Group) level at Earth station and ch level at ITMC

### 7. Homs-Hassakeh micro wave project

**Type of system:** analog  
**Manufacturer:** CIT Alcatel  
**Inauguration date:** 1977

Section	Distance	Number of redundancy	Number of repeaters:		Number of repeater
			used capacity	NE OS	
**					
Hassakeh-Homs	468.04	0	0	12	12
*Hassakeh-Damas	791.71	0	24	0	16
*Hassakeh-Aleppo	839.79	0	12	0	16
*Deirelzor-Aleppo	718.47	0	23	13	14
Deirelzor-Rakka	126.03	0	0	36	3
*Deirelzor-Damas	670.38	0	28	32	13
Deirelzor-Homs	517.87	0	6	30	9
Deirelzor-Hassakeh	225.89	0	16	32	6
*Rakka-Damas	546.22	0	0	12	9
Rakka-Homs	391.83	0	0	12	5
*Rakka-Aleppo	592.43	0	12	12	10
*Kamichly-Aleppo	907.24	0	0	12	18



Note\*: continue by using other projects

Note\*\*: "NE" is national exchanges. "OS" is other subscribers (this is dedicated circuits or leased circuits)

### 8. Telletra micro wave project

Type of system: digital 34Mbit/s 2Ghz.

Manufacturer: Telletra

Inauguration date: 1993

Number of circuits, Distance, Number of repeaters:

section	distance (km)	max by using equipment	ex. red.		inservice		NR
			capacity **	**	NLE **	OS **	
Damas-INT AirP	23.5	480	180	110	0	70	0
Damas-Duma	12.35	480	240	240	0	0	1
Damas-Zabadani	43.65	480	180	43	77	60	2
Hama-Salameya	30.8	480	240	90	120	30	2
Hama-Souran	16.8	240	240	0	210	30	1
Hama-Mhardi	22.5	240	240	120	90	30	2
Hama-Macyf	51.9	240	240	120	90	30	3
Hama-Skelbya	62.2	240	120	0	90	30	2
Hama-Salhab	82.2	240	120	0	90	30	3
Hama-Muaraa	58.9	480	120	60	30	30	3
Hama-Kamhana	6.9	240	120	0	120	0	0
Muaraa-Kafernubul	16.3	480	120	0	120	0	1
Muaraa-Khanshekhun	24.0	480	240	0	240	0	2
*Muaraa-Sarakeb	33.0	480	120	120	120	0	1
***Muaraa-Idleb	69.6	480	120	0	120	0	3
Idleb-Aldana	33.5	240	120	0	90	30	1
Idleb-Muartsrin	25.25	240	240	90	120	30	1
Idleb-Salken	21.2	480	240	120	120	0	2

Note\*: It continues to Aleppo.

Note: Hama-Kamhana 13GHz

Muaraa-Muaraa Mt. 13GHz

Note\*\*: "eq." is equipment. "ex." is existing. "red." is redundancy. "NLE" is national exchanges or local exchanges. "OS" is other subscribers (this is dedicated circuits or leased circuits). "NR" is number of repeater.

Note\*\*\*: Muaraa-Sarakeb micro wave  
Sarakeb-Aleppo coaxial cable  
Aleppo-Idleb optical fiber cable

### 9. Contract 50/A micro wave project for spur route

Type of system: digital 34Mbit/s 2Ghz.

Manufacturer: Siemence A.G.

Inauguration date: 1994

Number of circuits, Distance:

See attached lists "Digital transmission systems in Syria" and

"Digital circuits in Syria".

Number of repeaters:

Following stations in the attached list "Digital systems in Syria" are active repeater stations which have no multiplexes:

SAWANE MT., RASEM EZBED, NABI SALEH,  
TARTOUS TRANSMISSION, UM MYAL,  
SHEIKH ZYAT, TAL TAMER, TAL TITA  
PETRA (total 9)

Following stations, not listed in "Digital systems in Syria", are passive repeater stations.

ALMKHOZAK MT. in SAFIA B - NASRAH  
TALLET EMELIAS in NASRAH - SHEEN  
TALLET AL MOURKAED in SHEEN - TALDO  
MAAZ BEN SALEH in TARTOUS TRANSMISSION -  
CHEIKH BADR  
JOPHINE MT. in DALIEH - LATTAKIA D  
TALLET KASHFET AL HARF  
in BEIT YASHOUT - LATTAKIA D  
BEIT SHAKER in TAL TITA - HAREM  
(total 7)

**Note: STE will execute during this year two micro wave (140Mbit/s, 1920ch, PDH) projects:**

First one:

Syria(Damascus)-Lebanon(Beirut)  
(Damas - Kasiun 13GHz, Kasiun - Sarukhia 6GHz,  
Sarukhia - Jenedat Yabout 2GHz, etc.)

Second one:

Syria(Damascus)-Jordan(Amman)

JICA TEAM shall have the information concerning the projects mentioned above, during the second visit (10,11)/1995.

#### 10. Damascus STD - Der-Ezzor Projects

Damascus STD - Tishreen	STE microwave project *(45km)
Tishreen - Thayyem	private fiber-optic cable project (471.006km)
Thayyem - Der-Ezzor	STE microwave project *(13km)
	total distance 484.006km

note \*: see optical fiber part

**Section: Damascus STD - Tishreen, Thayyem - Der-Ezzor**

**Distance: 45km, 13km**

**Type of system: 140Mbit/s PDH 1920ch 1+1 system? 4140MHz, 4060MHz, 3820MHz, 3740MHz**

**Manufacturer: Alcatel Granger**

**Redundancy: one 34Mbit/s for STE from Thayyem to Der Ezzor**

**Used capacity: two 34Mbit/s for STE from Damascus STD to Der Ezzor**

one 34Mbit/s for STE from Damascus STD to Tishreen

**Number of repeater: none**

**Inauguration Date: under execution by December (4060MHz and 3740MHz are usable after middle of 1996, because of Arab sat interference)**

140M micro 4GHz 1+1 sys? 13km	140M fiber 2 tubes 1 system 19.4km	140M fiber 2 tubes 1 system 451.606km	140M micro 4GHz 1+1 sys? 45km
--	---	--	--



**Manufacturer:** Siemens

**Redundancy:**

**Used capacity:** Damascus International Switching Center - Kassioun see (1)  
Damascus TV Center - Kassioun see (1)  
Kassioun - Saroukhieh one 155Mbps and one 140Mbps  
S1-21 go to Beirut  
Saroukhieh - Dahr El Baidar one 155Mbps and one 140Mbps  
go to Beirut

Dahr El Baidar - Beirut Justice 1 telephone sys, 1 TV sys

**Number of repeater:** 4 active (including Kassioun, Saroukhieh and Dahr El Baidar)

**Inauguration Date:** unknown

## 12. Syria (Damascus) - Jordan (Aman) Microwave project

Only planning

S1-2-6

**Optical Fiber Transmission Systems**



## **SI-2-6 OPTICAL FIBER TRANSMISSION SYSTEMS**

Note: "tube" in the lists below equals to "fiber" or "core" that is a unit for number of optical fiber cores.

### **1. Syria(Tartous)-Cyprus(Pentaskhinos) Submarine cables project(Ugarit)**

**Section:** Tartous-Pentaskhinos

**Distance:** 236.685km Submarine Cables + (6km Land cable in Syria + 0.8km Land cable in Cyprus)

**Type of system:** Digital SDH(140Mbit/s, 155Mbit/s) 1920ch

Line bit rate 622Mbit./s

Transmission Wave length 1.550nm

**Manufacturer:** Pirelli for optical fiber cable, and N.K.T(Denmark) for equipment

**Contractor:** Manstal Company(Italian Company)

Type of submarine and land cables 4 tubes(2 tubes are vacant)

**Redundancy:** 1694

**Used Capacity:** 226

**Number of repeaters:** none

**Inauguration Date:** 1994

### **2. Syria(Deraa)-Jordan(Alramta) optical fiber cable project**

**Section:** Deraa-Alramta

**Distance:** 13km

**Type of system:** Digital PDH, 140Mbit/s, 1920ch

transmission wave length: 1550nm

**Manufacturer:** Siemens A.G.

**Type of optical fiber cable:** 8tubes(6tubes are vacant)

**Redundancy:** 420ch

**Used Capacity:** 60ch

**Number of repeaters:** none

**Inauguration date:** 1994

Note: three tributary 34Mbit/s stop at this level in both sides and the forth tributary 34Mbit./s transfers in both sides onto another projects to Damascus and Amman and drops to 2Mbit/s level.

### **3. Damascus(TV center, ITMC)-Muara Sydnaya(earth station) optical fiber cable project**

**(1) Section for phone: Damascus(ITMC)-Muara Sydnaya(earth station)**

**Distance:** 30km

**Type of system:** 140Mbit/s PDH 1920ch 1330nm

**Manufacturer:** Siemens AG

**Redundancy:** 1301ch

**Used capacity:** 619ch

**Number of repeater:** 0

**Inauguration Date:** 1994

**Type of optical fiber cable:** 14tubes

Note: (1+1) system, one phone one reserve

**(2) Section for TV: Damascus(TV center)-Muara Sydney(earth station)**

**Distance: 33km**

**Type of system: 622Mbit/s SDH 1330nm**

**Manufacturer: Siemens AG**

**Redundancy: 1ch(140Mbit/s)**

**Used capacity: 3ch(3 x 140Mbit/s)**

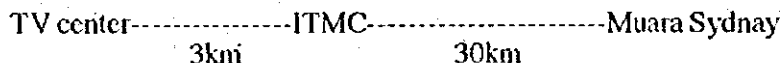
**Number of repeater: 0**

**Inauguration Date: 1994**

Note: 1ch(140Mbit/s) receive from TV center and

2ch(2x140Mbit/s) transmit from earth satellite station to TV center

Note: (1+1)system, one TV (622Mbit/s) one reserve



**3. Contract 3/A and 40/A projects for junction network**

**Type of system: 140Mbit/s SDH 1330nm**

**Manufacturer: Siemens AG**

**Number of repeater: 0**

**Inauguration Date: 31st Jan./ 1995(40/A), 2nd Apr., 1993(3/A)**

**No of circuits, distance:**

See attached list " Digital transmission systems in Syria"

**4. 140Mbit/s(PDH, 1920ch, 1550nm) digital systems project which uses optical fiber cable to connect following cities ( Contract 50/A project)**

1)Damascus, Quteifeh, Nabek, Homs, Hama, Aleppo, Ebleb, Jesser, Alshughour, Lattakia, Baniyas, Tartous, Talkalakh, Homs

2)Damascus, J.Artuz, Saasa, Quncitra

3)Damascus, Kesweh, Sanamein, Sheikhmeskeen, Daael, Dara

4)Sheikhmeskeen, Ezraa, Sweda

5)Damascus, O.C, Int Airport

6)SPUR ROUTES

Sheikhmeskeen, Nawa, Jasem

Daael, Tafas

Daael, Kherbit Algazaleh, Al Hrak

Sweda, Shahba

Sweda, Kraya, Salkhad, Bousra Alsham

**Type of optical fiber cable:**

Damascus-Quteifeh,Nabek, Homs	32tubes
Homs, Hama, Sarakeb(repeater only), Aleppo	16tubes
Homs, Talkalakh, Tartous	16tubes
Tartous, banias, Lattakia	12tubes
Lattakia, Jesser Alshughour, Edleb, Aleppo	16tubes
Damascus, G.Artuz, Saasa, Quncitra	8tubes
Damascus, Keswen, Sanamein, Sheikhmeskeen, Daael	16tubes
Daael, Deraa	20tubes
Sheikhmeskeen, Ezraa, Sweda	16tubes
Damascus, O.C	20tubes
O.C, International Airport	8tubes
Sheikhmeskeen, Nawa, Jasem	6tubes
Daael, Tafas	6tubes
Daael, Kherbit Algazaleh, Alhrak	8tubes



Sweda, Shahba	6tubes
Sweda, Kraya	12tubes
Kraya, Branch point	12tubes
Branch point, Salkhad	6tubes
Branch point, Bousra Alsham	6tubes

No of repeater: only one at Sarakcb

Manufacturer: Siemens A.G.

Inauguration Date: 1994

No of circuits, distance:

See attached lists "Digital transmission systems in Syria", and "Digital circuits in Syria"

**5. Syria (Damascus)-Lebanon (Shtura) optical fiber project**  
(Branch: Kura Al-Assad, Dimas, Zabadani, Jdaydet Yabous)

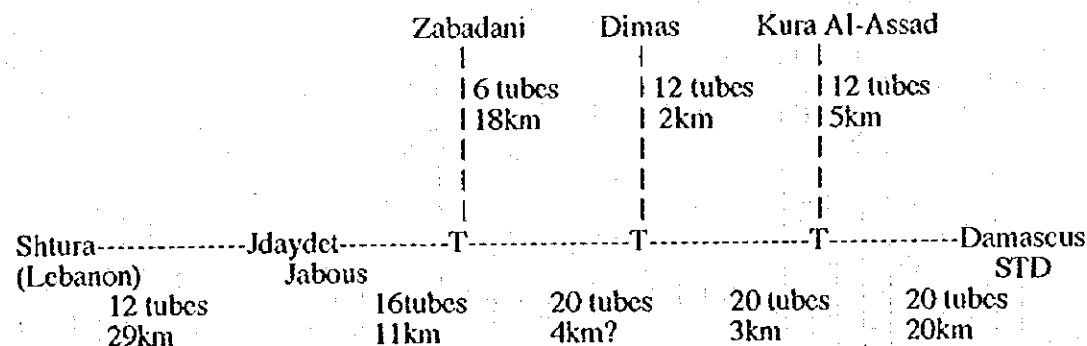
Section: Damasucs STD -Shtura

Distance: 67km

Type of system: Digital SDH, 140Mbit/s or 155Mbit/s, 1920ch Line bit rate 622Mbit/s  
transmission wave length: 1550nm

Manufacturer: Siemens

Inauguration date: Under Execution



note: T is T-joint ( no repeater ).

**System Configuration:**

Damascus STD - Shtura	SDH 622Mbit/s one system
Damascus STD - Zabadani	140 Mbit/s one system
Damascus STD - Kura Al-Assad	140 Mbit/s one system
Kura Al Assad - Dimas	140 Mbit/s one system
Dimas - Jdaydet Yabous	140 Mbit/s one system

**6. Damascus STD - Der-Ezzor Projects**

Damascus STD - Tishreen	STE microwave project *(45km)
Tishreen - Thayyem	private fiber-optic cable project (471.006km)
Thayyem - Der-Ezzor	STE microwave project *(13km)
	total distance 484.006km

note \*: see microwave part

Section: Tishreen - Thayyem

Distance: 471.006km

Type of system: 140Mbit/s PDH 1920ch 1550nm ?

Manufacturer: Granger

Redundancy: one 34Mbit/s for STE from Thayyem to Der Ezzor



**9. Syria (Tartous) - Lebanon (Trablous - Beirut) optical fiber submarine cable project (BERYTAR)**

**Section:** Tartous - Trablous - Beirut

**Distance:** submarine cable total 125.247km + land cable total 8km = 133.247km

**Type of system:** SDH 140Mbit/s 155Mbit/s 1550nm line bit rate 622Mbit/s 7680ch  
(max)

**Manufacturer:** Alcatel

**Redundancy:**

**Used capacity:**

Tartous - Beirut	622Mbit/s (Two STM-1)
Tartous - Tripoli - Beirut	One STM-1
Tripoli - Beirut	622Mbit/s (two STM-1)

**Number of repeater:** none

**Inauguration Date:** under contract. One month ahead, the contract will be signed among Lebanon and Syria.

**Type of optical fiber cable:**

2 tubes for Tartous - Beirut  
2 tubes for Tartous - Tripoli  
2 tubes for Tripoli - Beirut



S1-2-7

**Symmetrical Cable PCM Systems**



## S1-2-7 SYMMETRICAL CABLE PCM SYSTEMS

Type of system: 2Mbit/s 30ch / 1 system

Distant, Manufacturer, No of circuits, No of repeaters, Inauguration date:

SECTION INAUGU-	DIST. MANU- FAC- TURER	RD	UC (/30ch)	NUMBER OF REP.	RATION DATE
DAMAS A - DAMAS C	2.2km NEC(Jap)		74sys	1rep	1983
DAMAS A - DAMAS F	2.8km NEC(Jap)		32sys	1rep	1983
DAMAS A - DAMAS D	5.8km NEC(Jap)		19sys	3rep	1983
DAMAS A - DAMAS E	3km NEC(Jap)		24sys	2rep	1983
DAMAS C - DAMAS G	4km NEC(Jap)		4sys	3rep	1983
DAMAS C - DAMAS E	2.5km NEC(Jap)		4sys	1rep	1983
DAMAS C - DAMAS H	5km NEC(Jap)		4sys	3rep	1983
DAMAS C - DAMAS D	9km SAT(Fra)		6sys	7rep	1978
DAMAS A - DAMAS H	4km NEC(Jap)		1sys	2rep	1983
DAMAS E - DAMAS G	5km CIT(Fra)		3sys	3rep	1979
LATTAKIA-JABLE	30km SAT(Fra)		4sys	17rep	1988
LATTAKIA-KORDAHA	30km SAT(Fra)		4sys	17rep	1988
IDLEB-SARAKEB	15km CIT(Fra)		6sys	8rep	1983
ALEPPO A - JAMELEH	1.8km NEC(Jap)		26sys	1rep	1983
ALEPPO A - ALEPPO C	3.5km NEC(Jap)		38sys	1rep	1983
ALEPPO A - ALEPPO B	3.5km NEC(Jap)		18sys	2rep	1983

note: RD is REDUNDANCY. UC is USED CAPACITY.





S1-2-8

VHF and UHF Radio Systems & Open Wire Carrier Systems



**S1-2-8 VHF AND UHF RADIO SYSTEMS &  
OPEN WIRE CARRIER SYSTEMS**

**1. One channel open carrier systems**

No of systems: 49 systems

distance: 30km

Type of systems: TRT France

Manufacture: TRT France

Redundancy:

Used capacity: 1ch

Inauguration date: 1970

Remark: analog 40 - 146kHz

**2. Three channels open carrier systems**

No of systems: 18 systems

distance: 40km

Type of systems: TRT Bud Avox

Manufacture: Hungary

Redundancy:

Used capacity: 3ch

Inauguration date: 1988

Remark: analog 6 - 32kHz

**3. Twelve channels open carrier systems**

No of systems: 15 systems

distance: 30 - 70 km

Type of systems: Carrier MUX

Manufacture: Hungary Bud Avox

Redundancy:

Used capacity: 12 ch

Inauguration date: 1988

Remark: analog 36 - 146kHz

**4. Five channels radio systems**

No of systems: 37 systems

distance: 40km

Type of systems: UHF radio

Manufacture: Ireland Telectron

Redundancy:

Used capacity: 5ch

Number of repeaters: 3

Inauguration date: 1989

Remark: analog 360 - 470 MHz

**4. Twelve channels radio systems**

No of systems: 7 systems

distance: 40km

Type of systems: UHF TR4 NEC Japan

Manufacture: NEC

Redundancy:

Used capacity: 12ch

Number of repeaters: 2

Inauguration date: 1983

Remark: analog 360 - 470 MHz

**5. One channel radio systems**

No of systems: 17 systems

distance: 40 - 50 km  
Type of systems: VHF single channel  
Manufacture: GTE Spain  
Redundancy:  
Used capacity: 1ch  
Number of repeaters:  
Inauguration date: 1976  
Remark: analog 146 - 174 MHz

**6. Twelve channels radio systems**  
No of systems: 3 systems  
distance: 40km  
Type of systems: UHF radio  
Manufacture: GTE Italy  
Redundancy:  
Used capacity: 12ch  
Number of repeaters: 1  
Inauguration date: 1968  
Remark: analog 360 - 470 MHz

**7. Twelve channels radio systems**  
No of systems: 80 systems  
distance: 40 - 50 km  
Type of systems: VHF single channel  
Manufacture: Hungary Bud Avox  
Redundancy:  
Used capacity: 1ch  
Number of repeaters:  
Inauguration date: 1985  
Remark: analog 146 - 174 MHz

S1-2-9

Earth Stations



## S1-2-9 EARTH STATIONS

### 1. MCI Earth Station In Damascus

Far end: USA Andover NY  
Modulation: IDR DCME(MITSUBISHI)  
Band: C  
Manufacturer: MCI  
Circuit Capacity: 5PCM(in service)/8PCM(Max)  
NO of bearer: 1(in service)/2(Max)  
Satellite: Intelsat 359degree  
Date of install:

30CH PCM---I		
30CH PCM---I		DCME -----2MBPS BEARER-----Intelsat
30CH PCM---I		(IDR)
30CH PCM---I		
30CH PCM---I		

### 2. ATT Earth Station In Damascus

Far end: USA Coram NY  
Modulation: IDR IAT(ATT)  
BAND: C(TX: 5998.975MHz, RX: 3779.98MHz)  
Manufacturer: ATT  
Circuit Capacity: 4PCM(in service)/8PCM(Max)  
NO of bearer: 1(in service)/2(Max)  
Satellite: Intelsat 359degree  
Date of install:

30CH PCM---I		
30CH PCM---I		IAT  -----2MBPS BEARER-----Intelsat
30CH PCM---I		(IDR)
30CH PCM---I		

IAT: Integrated Access Terminal( AT&T product similar to DCME)

### 3. SPRINT1 Earth Station In Damascus

Far end: USA Sprint NY  
Modulation: IDR IAT(ATT)  
BAND: C(TX: 6110MHz, RX: 3786MHz)  
Manufacturer: Sprint IDM  
Circuit Capacity: 3PCM(in service)/4PCM(planned)/8PCM(Max)  
72circuits in service  
NO of bearer: 1(in service)/2(Max)  
Satellite: Sputnik Stationary (11degree west)  
Date of install:

30CH PCM---I		
30CH PCM---I		IAT  -----2MBPS BEARER-----Sputnik
30CH PCM---I		(IDR)

#### 4. SPRINT2 Earth Station In Aleppo

Far end: USA Sprint NY  
Modulation: IDR IAT(ATT)  
BAND: C  
Manufacturer: Sprint IDM  
Circuit Capacity: 3PCM(in service)/4PCM(planned)/8PCM(MAX)  
NO of bearer: 1(in service)/2(Max)  
Satellite: Sputnik Stationary (11degree west)  
Date of install:

30CH PCM---I		
30CH PCM---I IAT	-----	2MBPS BEARER-----Sputnik
30CH PCM---I		(IDR)

#### 5. STE earth station in Damascus (Basel Alassad Assembles for Earth Station)

Note: Every satellite has one TV channel.  
Note: STE E/S has 18 ADPCMs and 3 DCMEs.  
Note: Manufacturer of EC is TELLABAS.  
Note: working staff maximum 32  
Engineer 8

##### (1) Intelsat 1

Far end: Many destinations  
Modulation: IDR, 20ch SCPC, FDM-FM(2 carriers)  
BAND: C  
Manufacturer: Thomson, TELSPACE(FDM), COSMOS(IDR)  
Circuit Capacity:  
(a) Total capacity for FDM: two carriers 60ch + 12ch  
Redundancy: 12ch + 4ch  
Used capacity: 48ch + 8ch (using transmultiplexer to convert from terrestrial digital circuits to satellite analog circuits)  
(b) Total capacity for SCPC: 20ch  
Redundancy: 0  
Used capacity: 20ch  
(c) Total capacity for IDR: 5 x 1Mbit/s  
1 x 2Mbit/s ( using DCME for 4 x 30ch)  
2 x 512Kbit/s  
IDR modems; 8 + 2back up  
Redundancy: 0  
Used capacity: all in service  
Satellite: Intelsat 60degree East  
Date of install: 1978 FDM, 1993 IDR

##### (2) Intelsat 2

Far end: Many destinations  
Modulation: IDR IAT  
BAND: C  
Manufacturer: STS (American company)



**Circuit Capacity:**

(a) **Total capacity:** 29 x 2M /64 x 2M  
IDR modems(STS)/ 29 + 7back up, TV modem

**Redundancy:**

**Used capacity:** 2 x 2Mbit/s  
2 x 1Mbit/s (ADCM for 1Mbit/s = 30ch)  
3 x 512Kbit/s

**Satellite:** Intelsat 335.5degree East

**Date of install:** 1994

**(3) Arabsat**

**Far end:** Many destinations

**Modulation:** DM-FM CPC

**BAND:** C

**Manufacturer:** NC

**Circuit Capacity:**

(a) **Total capacity for DM:**

**Redundancy:** 0

**Used capacity:** 360ch

(b) **Total capacity for SCPC:** 70ch

**Redundancy:** 38ch

**Used capacity:** 32ch

**Satellite:** Arabsat 1C

**Date of install:** 1985

**(4) Intersputnik**

**Far end:** Many destinations

**Modulation:** IDR SCPC

**BAND:** C

**Manufacturer:** Tehkno Intorg (Russian company)PROMA EXPORT(Syrian company)

**Circuit Capacity:**

(a) **Total capacity for SCPC:** 12ch

**Redundancy:** 1ch

**Used capacity:** 11ch

(b) **Total capacity for IDR:** one ( 1 x 2Mbit/s)

**Redundancy:** 0

**Used capacity:** 30ch

**Satellite:** Intersputnik EXPRESS (14degree west)  
transponder 8 for phone, 9 for TV

**Date of install:** 1987, upgrade1993

**Note:** New international gate way switch at Aleppo will be inaugurated in October this year. The new international switch will handles calls from Aleppo and the eastern areas of Aleppo.



SI-2-10

**Digital Transmission Systems in Syria**



SI-2-10 DIGITAL TRANSMISSION SYSTEMS IN SYRIA

Note: digital systems below are of contract 50/A project, unless otherwise noted.

Note\*: national microwave project(NEC)

Note\*\* : contract 3/A and contract 40/A projects

Note\*+ : contract 3/A and contract 40/A projects + 25% Expansion contract 40/A

Note\*\*\*: Telletra micro wave project

Note\*\*\*\*: accurate system configuration is not available.

Each section has a stand-by system.

Note\*\*\*\*\*: 13GHz for Muaraa-Muaraa Mt.

Note\*\*\*\*\*: Modified from 17Mbi/s to 34Mbi/s.

See related 34Mbi/s sections.

Note: Digital optical transmission systems for international circuits, coaxial digital systems, and cable PCM systems are not included below.

	SECTION	DISTANCE	NO OF FIBER	SYSTEM	NO OF SYS.
AAMOUDA	DERBASSIEH	25KM	2GHZ	34MBPS	1+1SYS
AIN TEENA	QTEIFEH	?KM	?FIBER *+	140MBPS	1SYS
AL HASSAKEH	TAL TAMER	?KM	2GHZ *	34MBPS	1+1SYS
AL-BAB	MUNBIJ		*****		
AL-BAB	UM MYAL	?KM	2GHZ *	34MBPS	2+1SYS
ALEPPO	AL-BAB		*****		
ALEPPO B1, B2	ALEPPO D1, D2	4.5KM	4FIBER **	140MBPS	1SYS
ALEPPO B1, B2	ALLEPO C1, C2, C3	2.8KM	4FIBER **	140MBPS	1SYS
ALEPPO E	ALEPPO D1, D2	4.8KM	4FIBER **	140MBPS	1SYS
ALEPPO F	ALLEPO D1, D2	1.9KM	6FIBER **	140MBPS	2SYS
ALEPPO STD	ALEPPO B1, B2	2.0KM	4FIBER **	140MBPS	1SYS
ALEPPO STD	ALEPPO D1, D2	3.7KM	6FIBER **	140MBPS	2SYS
ALEPPO STD	ALEPPO E	3.7KM	6FIBER **	140MBPS	2SYS
ALEPPO STD	ALEPPO TRANSMISSION	2KM	4FIBER	140MBPS	2SYS
ALEPPO STD	ALLEPO C1, C2, C3	2.4KM	4FIBER **	140MBPS	1SYS
ALEPPO TRANSMISSION	KATMEH	46KM	2GHZ	34MBPS	2+1SYS
ALEPPO TRANSMISSION	RASEM EZBED	44.80KM	2GHZ	34MBPS	1+1SYS
ALEPPO TRANSMISSION	SHEIKH ZAYAT	?KM	2GHZ	34MBPS	3+1SYS
BANIAS	LATTAKIA STD	53KM	12FIBER	140MBPS	2+2SYS
BOUSRA ALHAREER	SWEDA B	27KM	16FIBER	34MBPS	1+1SYS
CHEIKH MESKEEN	DAAIL	10KM	16FIBER	34MBPS	1+1SYS
CHEIKH MESKEEN	DARAA B			140MBPS	2+2SYS
CHEIKH MESKEEN	IZRAA	9KM	20FIBER	34MBPS	2+2SYS
CHEIKH MESKEEN	SWEDA B			34MBPS	1+1SYS
DAAIL	DARAA B	16KM	20FIBER	140MBPS	1+1SYS
DAAIL	KHERBET GHAZALEH	9.5KM	8FIBER	34MBPS	1+1SYS
DAMASCUS A2	DAMASCUS B	2.5KM	6FIBER *+	140MBPS	1SYS
DAMASCUS A2	DAMASCUS C	1.0KM	10FIBER *+	140MBPS	1SYS
DAMASCUS A2	DAMASCUS H2	VIA C	*+	140MBPS	1SYS
DAMASCUS A2	DAMASCUS K	5.0KM	6FIBER *+	140MBPS	1SYS
DAMASCUS A2	DAMASCUS M	VIA B, E	*+	140M BPS	1SYS
DAMASCUS A2	DAMASCUS STD	1.5KM	10FIBER *+	140MBPS	1SYS
DAMASCUS B	DAMASCUS C	1.7KM	4FIBER **	140MBPS	1SYS
DAMASCUS B	DAMASCUS M	VIA E	*+	140M BPS	2SYS
DAMASCUS B	DAMASCUS STD	2.4KM	8FIBER *+	140MBPS	4SYS
DAMASCUS B	DAMASCUS E	2.5KM	6+8FIBER *+	140MBPS	2SYS
DAMASCUS C	DAMASCUS H2	3.5KM	6FIBER*+	140MBPS	1SYS
DAMASCUS C	DAMASCUS NI	5.8KM	6FIBER *+	140M BPS	3SYS

DAMASCUS D2	DAMASCUS B	6KM	6FIBER **	140MBPS	3SYS
DAMASCUS D2	DAMASCUS K	3.9KM	6FIBER **	140MBPS	3SYS
DAMASCUS D2	DAMASCUS STD	5.8KM	6FIBER **	140MBPS	3SYS
DAMASCUS D3	DAMASCUS D2	1.6KM	6FIBER **	140MBPS	2SYS
DAMASCUS E	DAMASCUS M	3.6KM	6+8FIBER *+	140MBPS	2SYS
DAMASCUS E	DAMASCUS STD	3.5KM	4FIBER **	140MBPS	1SYS
DAMASCUS G3	DAMASCUS B	2KM	8FIBER **	140MBPS	4SYS
DAMASCUS H2	DAMASCUS H3	3.8KM	4FIBER **	140MBPS	1SYS
DAMASCUS H2	DAMASCUS NI	6.8KM	6FIBER **	140MBPS	3SYS
DAMASCUS H2	DAMASCUS Z	18.4KM	4FIBER **	140M BPS	1SYS
DAMASCUS I2	DAMASCUS Y	14.8KM	4FIBER **	140MBPS	1SYS
DAMASCUS J	DAMASCUS V	13.4KM	4FIBER **	140MBPS	1SYS
DAMASCUS K	DAMASCUS G3	4.4KM	4FIBER **	140MBPS	1SYS
DAMASCUS K	DAMASCUS H2	4.4KM	6FIBER **	140M BPS	3SYS
DAMASCUS K	DAMASCUS LI	6KM	4FIBER **	140MBPS	2SYS
DAMASCUS K	DAMASCUS STD	2.8KM	6FIBER **	140MBPS	2SYS
DAMASCUS L1	DAMASCUS F	2.8KM	4FIBER **	140MBPS	1SYS
DAMASCUS L1	DAMASCUS H2	4.5KM	4FIBER **	140M BPS	2SYS
DAMASCUS L1	DAMASCUS L2	3.8KM	4FIBER **	140MBPS	1SYS
DAMASCUS M	DAMASCUS I2	9.1KM	4FIBER **	140MBPS	1SYS
DAMASCUS NI	DAMASCUS M	7.8KM	6FIBER **	140MBPS	3SYS
DAMASCUS N2	DAMASCUS J	4.4KM	4FIBER **	140MBPS	1SYS
DAMASCUS NI	DAMASCUS N2	5.1KM	6FIBER **	140M BPS	3SYS
DAMASCUS O	DAMASCUS G3	6KM	6FIBER **	140MBPS	3SYS
DAMASCUS P	DAMASCUS D2	10.4KM	4FIBER **	140MBPS	2SYS
DAMASCUS Q	DAMASCUS R	10KM	4FIBER **	140MBPS	1SYS
DAMASCUS R	DAMASCUS P	8.9KM	4FIBER **	140MBPS	1SYS
DAMASCUS R	DAMASCUS STD	17KM	8FIBER	34MBPS	1+1SYS
DAMASCUS S	DAMASCUS P	6.5KM	4FIBER **	140MBPS	1SYS
DAMASCUS STD	CHEIKH MESKEEN			140MBPS	1+1SYS
DAMASCUS STD	DAMASCUS C	2.5KM	6FIBER **	140MBPS	3SYS
DAMASCUS STD	DAMASCUS H2	3.6KM	4FIBER **	140MBPS	2SYS
DAMASCUS STD	DAMASCUS INT AIRPORT	31KM	20FIBER	34MBPS	2+2SYS
DAMASCUS STD	DAMASCUS M	VIA E	**	140M BPS	1SYS
DAMASCUS STD	DAMASCUS OMAYAD COMPLEX			34MBPS	2+2SYS
DAMASCUS STD	DAMASCUS X	18KM	16FIBER	34MBPS	1+1SYS
DAMASCUS STD	DUMA	12.35KM	2GHZ ***	34MBPS	1SYS ****
DAMASCUS STD	NABEK			140MBPS	5+3SYS
DAMASCUS STD	QTEIFEH	42KM	32FIBER	140MBPS	2+2SYS
DAMASCUS STD	SANAMEIN			140MBPS	2+1SYS
DAMASCUS STD	ZABADANI	43.65KM	2GHZ ***	34MBPS	1SYS ****
DAMASCUS STD	INT AIRPORT	23.5KM	2GHZ ***	34MBPS	1SYS ****
DAMASCUS T	DAMASCUS O	5KM	4FIBER **	140MBPS	2SYS
DAMASCUS UI	DAMASCUS T	13.3KM	4FIBER **	140MBPS	1SYS
DAMASCUS U2	DAMASCUS T	16KM	SYNMETRIC**	2MBPS	12SYS
DAMASCUS V	DAMASCUS W	16.8KM	4FIBER **	140MBPS	1SYS
DAMASCUS X	DAMASCUS LI	16.4KM	4FIBER **	140MBPS	1SYS
DAMASCUS X	SANAMEIN	35KM	16FIBER	34MBPS	1+1SYS
DAMASCUS STD	DAMASCUS F	2.9KM	6FIBER **	140MBPS	2SYS
DARAA B	DARAA A (JORDAN)	?	?	34MBPS	1+1SYS
DARAA B	SWEDA B			34MBPS	1+1SYS
DEIR EZZOR A	DEIR EZZOR B	2.4KM	6FIBER **	140MBPS	2SYS
DUCKUL	KASSAB	7KM	2GHZ **	17MBPS	1+1SYS
DUCKUL	RAS.BASIT	7KM	2GHZ **	17MBPS	1+1SYS
GISR ESHOGHOUR	IDLEB B	59KM	16FIBER	140MBPS	2+2SYS
HAMA	SARAKEB	95KM	16FIBER	140MBPS	3+2SYS
HAMA STD	HAMA TRANSMISSON	2.4KM	6FIBER **	140MBPS	2SYS
HAMA STD	KAMHANA	6.9KM	13GHZ ***	34MBPS	0.5SYS ****
HAMA STD	MACYF	51.9KM	2GHZ ***	34MBPS	0.5SYS ****
HAMA STD	MIHARDI	22.5KM	2GHZ ***	34MBPS	0.5SYS ****
HAMA STD	MUARAA ****	58.9KM	2GHZ ***	34MBPS	1SYS ****

HAMA STD	SALAMEYA	30.8KM	2GHZ ***	34MBPS	1SYS ****
HAMA STD	SALHAB	82.2KM	2GHZ ***	34MBPS	0.5SYS ****
HAMA STD	SKELBYA	62.2KM	2GHZ ***	34MBPS	0.5SYS ****
HAMA STD	SOURAN	16.8KM	2GHZ ***	34MBPS	0.5SYS ****
HASSAKEH PTE	RAS ALAIN		*****		
HAWA	CHEIKM MESKEEM	14KM	6FIBER	34MBPS	1+1SYS
HESYEH	HOMS	37KM	32FIBER	140MBPS	3+1SYS
HOMS STD	HAMA	56KM	16FIBER	140MBPS	3+2SYS
HOMS STD	HOMS D	2.0KM	6FIBER **	140MBPS	2SYS
HOMS STD	HOMS E	5.5KM	4FIBER **	140MBPS	1SYS
HOMS STD	HOMS TRANSMISSION	1.5KM	4FIBER **	140MBPS	1SYS
HOMS STD	KSEIR	26.75KM	2GHZ	34MBPS	1+1SYS
HOMS STD	SAWANE MT.	36.67KM	2GHZ	34MBPS	2+1SYS
HOMS STD	SHIEN	27KM	2GHZ	34MBPS	3+1SYS
HOMS STD	TABISSEH	15.0KM	4FIBER **	140MBPS	1SYS
HOMS STD	TALKALAKH	45KM	16FIBER	140MBPS	1+1SYS
HOMS STD	TARTOUS B			140MBPS	3+3SYS
IDLEB B	ALEPPO STD	71KM	16FIBER	140MBPS	2+2SYS
IDLEB B	AREHA	12.4KM	2GHZ	34MBPS	1+1SYS
IDLEB B	TAL JITA	21.3KM	2GHZ	34MBPS	1+1SYS
IDLEB B?	MUARTEM SRIN	25.25KM	2GHZ ***	34MBPS	0.5SYS ****
IDLEB B?	SALKEN	21.2KM	2GHZ ***	34MBPS	1SYS ****
IDLEB B?	ALDANA	33.5KM	2GHZ ***	34MBPS	0.5SYS ****
IDLEE A	IDLEE B	2.0KM	4FIBER **	140MBPS	1SYS
IZRAA	BOUSRA ALHAREER	8KM	16FIBER	34MBPS	1+1SYS
JASSEM	HAWA	13KM	6FIBER	34MBPS	1+1SYS
KAHTANIEH	PETRA	57.6KM	2GHZ	34MBPS	1+1SYS
KAMISHILY A	AAMOUDA	26.5KM	2GHZ	34MBPS	1+1SYS
KAMISHILY A	KAHTANIEH	28.5KM	2GHZ	34MBPS	1+1SYS
KATMEH	EAZAZ	7.3KM	2GHZ	34MBPS	1+1SYS
KATMEH	EFREEN	12.5KM	2GHZ	34MBPS	1+1SYS
KATMEH	TAL REFAAT	18.2KM	2GHZ	34MBPS	1+1SYS
KHERBET GHAZALEH	AL HRAK	12KM	6FIBER	34MBPS	1+1SYS
KRAYA	BUSRA	15KM	6FIBER	34MBPS	1+1SYS
KRAYA	SALKHAD	18KM	6FIBER	34MBPS	1+1SYS
LATTAKIA	DUCKUL		*****		
LATTAKIA D	AL HAFTEH	21.5KM	2GHZ	34MBPS	1+1SYS
LATTAKIA D	BEI YASHOUT	38KM	2GHZ	34MBPS	1+1SYS
LATTAKIA D	DALIEH	43.80KM	2GHZ	34MBPS	1+1SYS
LATTAKIA D	LATTAKIA STD	4.3KM	4FIBER **	140MBPS	1SYS
LATTAKIA D	LATTAKIA TRANSMISSION	2.6KM	4FIBER **	140MBPS	1SYS
LATTAKIA D	SLENFEH	40.42KM	2GHZ	34MBPS	1+1SYS
LATTAKIA STD	GISR ESHOGHOUR	80KM	16FIBER	140MBPS	2+2SYS
LATTAKIA STD	LATTAKIA TRANSMISSION	2.0KM	4FIBER **	140MBPS	1SYS
LATTAKIA TRANSMISSION	BOURJ ISLAM	25KM	6FIBER	34MBPS	1+1SYS
LATTAKIA TRANSMISSION	DUCKUL	?KM	2GHZ *	34MBPS	1+1SYS
LATTAKIS TRANSMISSION	SHATE AZRAK	8.9KM	4FIBER **	140MBPS	1SYS
MALOULA	AIN TEENA	?KM	?FIBER *+	140MBPS	1SYS
MENBEJ	TAL ARMANE	?KM	2GHZ *	34MBPS	1+1SYS
MUARAA *****	IDLEB	69.6KM	2GHZ ***	34MBPS	1SYS ****
MUARAA *****	KAFERNUBUL	16.3KM	2GHZ ***	34MBPS	1SYS ****
MUARAA *****	KHANSHEKHUN	24.0KM	2GHZ ***	34MBPS	1SYS ****
MUARAA *****	SARAKEB	33.0KM	2GHZ ***	34MBPS	1SYS ****
MUNBIJ	TAL ARMANE		*****		
NABEK	HESYEH	44KM	32FIBER	140MBPS	3+1SYS
NABEK	HOMS			140MBPS	5+2SYS
NABI SALEH	MASHITA	5.8KM	2GHZ	34MBPS	1+1SYS
NASRAH	SAFITA B	15.1KM	2GHZ	34MBPS	1+1SYS
PETRA	MALKIEH	13.3KM	2GHZ	34MBPS	1+1SYS
QTEIFEH	NABEK	45KM	32FIBER	140MBPS	2+2SYS
QUNEITRA	DAMASCUS STD			34MBPS	1+1SYS

QUNEITRA	SAASA	22KM	8FIBER	34MBPS	1+ISYS
RAKKA	TAL ABIAD	84.83KM	2GHZ **	17MBPS	1+ISYS
RAKKA A	RAKKA B	3.1KM	4FIBER **	140MBPS	ISYS
RASEM FZBED	SFEIRA	25KM	2GHZ	34MBPS	1+ISYS
SAASA	DAMASCUS R	22KM	8FIBER	34MBPS	1+ISYS
SAFITA B	DREIKISH	9KM	2GHZ	34MBPS	1+ISYS
SAFITA B	NABI SALEH	18.1KM	2GHZ	34MBPS	1+ISYS
SANAMEIN	CHEIKH MESKEEN	10KM	16FIBER	140MBPS	1+ISYS
SANAMEIN	CHEIKH MESKEEN			34MBPS	1+ISYS
SANAMEIN	SWEDA B			34MBPS	1+ISYS
SARAKEB	ALEPPO	53KM	16FIBER	140MBPS	3+2SYS
SAWANE MT.	KARIATEIN	49.5KM	2GHZ	34MBPS	1+ISYS
SAWANE MT.	MUKHARRAM FOKANI	18.2KM	2GHZ	34MBPS	1+ISYS
SHARKEIH	KHNAIFIS	21.06KM	2GHZ **	17MBPS	1+ISYS
SHEEN	NASRAH	13.75KM	2GHZ	34MBPS	2+ISYS
SHEEN	TALDO	12.2KM	2GHZ	34MBPS	1+ISYS
SHEIKH ZAYAT	AL-BAB	?KM	2GHZ	34MBPS	3+ISYS
SWEDA	KRAYA	5KM	12FIBER	34MBPS	1+ISYS
SWEDA	SHAHBA	25KM	6FIBER	34MBPS	1+ISYS
TABISSEH	RASTAN	11.0KM	4FIBER **	140MBPS	ISYS
TADMOR	SHARKIEH	38.07KM	2GHZ **	17MBPS	1+ISYS
TAFAS	DAAIL	7KM	6FIBER	34MBPS	1+ISYS
TAL ARMANE	AIN ARAB	?KM	2GHZ **	17MBPS	1+ISYS
TAL ARMANE	DJARBLOUS	?KM	2GHZ **	17MBPS	1+ISYS
TAL TAMER	RAS AL AIN	?KM	2GHZ *	34MBPS	1+ISYS
TAL TITA	HAREM	15KM	2GHZ	34MBPS	1+ISYS
TALKALAKII	TARTOUS B	53KM	16FIBER	140MBPS	1+ISYS
TALTITA	KAFRTAKHAREEM	3.4KM	2GHZ	34MBPS	1+ISYS
TARTOUS B	ARWAD	6.75KM	2GHZ	34MBPS	1+ISYS
TARTOUS B	BANIAS	40KM	12FIBER	140MBPS	2+2SYS
TARTOUS B	LATTAKIA STD			140MBPS	1+ISYS
TARTOUS B	TARTOUS TRANSMISSION	?KM	2GHZ	34MBPS	1+ISYS
TARTOUS TRANSMISSION	CHEIKH BADR	22.5 KM?	2GHZ	34MBPS	1+ISYS
TARTOUS TRANSMISSION	TARTOUS B	2.8KM	6FIBER **	140MBPS	2SYS
TASALHAB	SUKELBLEH	15.5KM	4FIBER **	140MBPS	ISYS
UM MYAL	MENBEJ	?KM	2GHZ *	34MBPS	2+ISYS



SI-2-11

**Digital Circuits in Syria**



SI-2-11 DIGITAL CIRCUITS IN SYRIA

note: Circuits are listed only for 50/A contract project.

note: Circuits are double counted in the list.

note: CCT is the abbreviation of circuit.

note: DAST(DAIT) in the list is Damascus ITE  
(International Transit Exchange).

DAST and DAIT are at the same location.

note\*: 3/A, 40/A contract projects

note\*\*: Using National micro wave project (NEC)

note\*\*\*: Using other analog or digital projects

note\*\*\*\*: Using transmultiplexer

(Section between a station and its destination is analog)

STATION	CODE	DESTINATION	2MBPS CCT (/2Mbps)	A/D CCT (/30 voice ch)
AAMOUDA	KAAM	AHBI ***	4	
AAMOUDA	KAAM	KAAI		2
AAMOUDA	KAAM	KADE		2
AIN AL-ARAB	MEAA **	MEAI	3	
AL HASSAKEH B	AHBI	AHRA	4	
AL HASSAKEH B	AHBI ****	ALST ****	2	
AL HASSAKEH B	AHBI ****	DEAI ****	6	
AL HASSAKEH B	AHBI ***	KAAM	4	
AL HASSAKEH B	AHBI ***	KADE	4	
AL HASSAKEH B	AHBI ***	KAMA	4	
AL-BAB	ALAB	ALST	8	
AL-HAFFEH	LAHH	LAST	4	2
AL-HRAK	DRAH	DRBI	3	
AL-THAOURA	RAAT ****	RAAI ****	2	
ALBOUKAMAL	DEAL ****	DEAI ****	4	
ALEPPO STD	ALST ****	AHBI ****	2	
ALEPPO STD	ALST	ALAB	8	
ALEPPO STD	ALST	ALEA	5	2
ALEPPO STD	ALST	ALEF	6	2
ALEPPO STD	ALST	ALSF	6	3
ALEPPO STD	ALST	DAST	30	13
ALEPPO STD	ALST ****	DAST ****	22	
ALEPPO STD	ALST	DAST(DAIT)	18	
ALEPPO STD	ALST ****	DEAI ****	4	
ALEPPO STD	ALST	GEAI		1
ALEPPO STD	ALST	HAST	11	5
ALEPPO STD	ALST	HOST	21	6
ALEPPO STD	ALST	IDBI	4	2
ALEPPO STD	ALST ****	KAAI ****	4	
ALEPPO STD	ALST	LAST	15	5
ALEPPO STD	ALST	MEAI	6	
ALEPPO STD	ALST ****	RAAI ****	2	
AREHA	IDAR	IDBI	4	2
AREHA	IDAR	MOAI		1
ARWAD	TAAR	TABI	4	2
BANIAS A	TABA	LAST	3	6
BANIAS A	TABA	TABI	2	6

BEIT YASHOUT	LABY	LAST	4	2
BOURJ ISLAM	LABI	LATM		2
BOUSRA-ALHAREER	DRBA	DRCM		4
BOUSRA-ALHAREER	DRBA	SWBI		4
BURSA	SWBU	SWBI	3	1
CHEIKH BADR	TACB	TABI	4	2
CHEIKH MESKENN	DRCM	DAST		5
CHEIKH MESKENN	DRCM	DAXI		2
CHEIKH MESKENN	DRCM	DRBI	16	3
CHEIKH MESKENN	DRCM	DRBA		4
CHEIKH MESKENN	DRCM	DRIZ	3	1
CHEIKH MESKENN	DRCM	DRJA	3	1
CHEIKH MESKENN	DRCM	DRNA	4	
CHEIKH MESKENN	DRCM	DRSA	3	3
CHEIKH MESKENN	DRCM	SWBI		4
DAAIL	DRDA	DRBI	11	1
DAAIL	DRDA	DRKG		1
DAAIL	DRDA	DRTA		1
DALIEH	LADA	LAST	4	2
DAMASCUS INT AIRPORT	DAIA	DAST	4	
DAMASCUS OMayAD COMPLEX	DAOA	DAST	5	
DAMASCUS R	DARI	DASA		2
DAMASCUS STD	DAST	ALST		13
DAMASCUS STD	DAST	ALST	30	
DAMASCUS STD	DAST ****	ALST ****	22	
DAMASCUS STD	DAST	DAIA	4	
DAMASCUS STD	DAST	DAOY	5	
DAMASCUS STD	DAST	DASA		4
DAMASCUS STD	DAST	DRBI	16	6
DAMASCUS STD	DAST	DRCM		5
DAMASCUS STD	DAST	DRSA		5
DAMASCUS STD	DAST	HAST		6
DAMASCUS STD	DAST	HAST	9	
DAMASCUS STD	DAST	HOHY		2
DAMASCUS STD	DAST	HOST	26	13
DAMASCUS STD	DAST	LAST		7
DAMASCUS STD	DAST	LAST	15	
DAMASCUS STD	DAST	NAAI		5
DAMASCUS STD	DAST	NAAI	4	
DAMASCUS STD	DAST	NAQF		6
DAMASCUS STD	DAST	NAQF	3	
DAMASCUS STD	DAST	QUAI	8	6
DAMASCUS STD	DAST	SWBI	2	6
DAMASCUS STD	DAST	TABI	5	6
DAMASCUS STD (ITE)	DAST(DAIT)	ALST	18	
DAMASCUS STD (ITE)	DAST(DAIT)	HOST	12	
DAMASCUS STD (ITE)	DAST(ITE)	LAST	6	
DAMASCUS X	DAXI	DRBI		2
DAMASCUS X	DAXI	DRCM		2
DAMASCUS X	DAXI	DRCM		2
DARAA B	DRBI	DAST	16	6
DARAA B	DRBI	DAXI		2
DARAA B	DRBI	DRAH	3	
DARAA B	DRBI	DRCM	16	3
DARAA B	DRBI	DRDA	11	1
DARAA B	DRBI	DRIZ		4

DARAA B	DRBI	DRKG	3	
DARAA B	DRBI	DRSA		2
DARAA B	DRBI	DRTA	3	
DARAA B	DRBI	SWBI	8	3
DEIR EZZOR A ( to DEB1)	DEAI ****	AHBI ****	6	
DEIR EZZOR A ( to DEB1)	DEAI ****	ALST ****	4	
DEIR EZZOR A ( to DEB1)	DEAI ****	DEAL ****	4	
DEIR EZZOR A ( to DEB1)	DEAI ****	DEMA ****	2	
DEIR EZZOR A ( to DEB1)	DEAI ****	KAAI ****	4	
DEIR EZZOR A ( to DEB1)	DEAI ****	RAAI ****	4	
DERBASSIEH	KADE	AHBI ***	4	
DERBASSIEH	KADE	KAAM		2
DREIKISH	SADR	SABI	4	2
EAZAZ	ALEA	ALST	5	2
EAZAZ	ALEA	ALTR	3	2
EFFREEN	ALEF	ALST	6	2
GISR ESHOGHOUR	GEAI	ALST		1
GISR ESHOGHOUR	GEAI	IDBI	2	
GISR ESHOGHOUR	GEAI	LAST	2	1
HAMA STD	HAST	ALST	11	5
HAMA STD	HAST	DAST	9	6
HAMA STD	HAST	HAME		1
HAMA STD	HAST	HAMU		1
HAMA STD	HAST	HASA		1
HAMA STD	HAST	HASU		1
HAMA STD	HAST	HORA		1
HAMA STD	HAST	HOST	16	6
HAMA STD	HAST	LAST	2	
HAREM	IDHA	IDBI	4	2
HESYEH	HOHY	DAST		2
HESYEH	HOHY	HOST		2
HESYEH	HOHY	NAAI		2
HOMS STD	HOST	ALST	21	6
HOMS STD	HOST	DAST	26	13
HOMS STD	HOST	DAST(DAIT)	12	
HOMS STD	HOST	HAST	16	6
HOMS STD	HOST	HOHY		2
HOMS STD	HOST	HOKA	4	2
HOMS STD	HOST	HOKS	6	2
HOMS STD	HOST	HOMF	4	3
HOMS STD	HOST	HONA	10	2
HOMS STD	HOST	HOSH	4	2
HOMS STD	HOST	HOTA	4	1
HOMS STD	HOST	HOTD	4	2
HOMS STD	HOST	LAST	14	6
HOMS STD	HOST	SABI	6	2
HOMS STD	HOST	TABI	2	6
IDLEB B	IDBI	ALST	4	2
IDLEB B	IDBI	GEAI	2	
IDLEB B	IDBI	IDAR	4	2
IDLEB B	IDBI	IDHA	4	2
IDLEB B	IDBI	IDKA	3	
IDLEB B	IDBI	M4B4 ***	1	
IDLEB B	IDBI	MOAI ***	4	
IDLEB B	IDBI	MXB3 ***	1	
IZRAA	DRIZ	DRBI		4

IZRAA	DRIZ	DRCM	3	1
IZRAA	DRIZ	SWBI		4
JASSEM	DRJA	DRCM	3	1
JEBLEH	LAJE ****	LAST ****	4	
JRABLUS	MEJR **	MEAI	3	
KAFRTAKHAREEM	IDKA	IDBI	3	
KAHTANIEH	KAKT	KAAl		2
KAMISHLY A	KAAl ****	ALST ****	4	
KAMISHLY A	KAAl ****	DEAl ****	4	
KAMISHLY A	KAAl	KAAM		2
KAMISHLY A	KAAl	KAKT		2
KAMISHLY A	KAAl	KAMA		2
KANSHEKOUN	KANSHEKOUN	MOAl		1
KARDAHA	LAKA ****	LAST ****	2	
KARIATEIN	HOKA	HOST	4	2
KASSAB	LAKS **	LAST	4	
KHERBET GHAZALEH	DRKG	DRBI	3	
KHERBET GHAZALEH	DRKG	DRDA		1
KRAYA	SWKR	SWBI	7	
KSEIR	HOKS	HOST	6	2
LATTAKIA D	LADI	LARB **	4	
LATTAKIA STD	LAST	ALST	15	5
LATTAKIA STD	LAST	DAST	15	7
LATTAKIA STD	LAST	DAST(DAIT)	6	
LATTAKIA STD	LAST	GEAl	2	1
LATTAKIA STD	LAST	HAST	2	0
LATTAKIA STD	LAST	HOST	14	6
LATTAKIA STD	LAST	LAAl		2
LATTAKIA STD	LAST	LAAl *	4	
LATTAKIA STD	LAST	LABY		2
LATTAKIA STD	LAST	LABY *	4	
LATTAKIA STD	LAST	LADA		2
LATTAKIA STD	LAST	LADA *	4	
LATTAKIA STD	LAST ****	LAJE ****	4	
LATTAKIA STD	LAST ****	LAKA ****	2	
LATTAKIA STD	LAST	LAKS **	4	
LATTAKIA STD	LAST	LASL		2
LATTAKIA STD	LAST	LASL *	4	
LATTAKIA STD	LAST	TABI	4	7
LATTAKIA STD	LAST	TABA	3	6
LATTAKIA TRANSMISSION	LATM	LABI		2
MALKIEH	KAMA	AHBI ***	4	
MALKIEH	KAMA	KAAl		2
MASHTA	SAMA	SABI	6	2
MAYADEEN	DEMA ****	DEAl ****	2	
MENBEJ	MEAl	ALST	6	
MENBEJ	MEAl	MEAA **	3	
MENBEJ	MEAl	MEJR **	3	
MESSIAF	HAME	HAST		1
MONRED MESSREEN	MONRED MES	MOAl		1
MONRED MESSREEN B3	MXB3 ***	IDBI	1	
MOUARRA	MOAl	IDAR		1
MOUARRA	MOAl ***	IDBI	4	
MOUARRA	MOAl	IDSA		1
MOUARRA	MOAl	IDSU		1
MOUARRA	MOAl	KANSHEKOUN		1

MOUARRA	MOA1	MONRED MESSREEN	1
MUHARDEH	HAMU	HAST	1
MUKHARRAM FOKANI	HOMF	HOST	3
NABEK	NAA1	DAST	4
NABEK	NAA1	HOHY	5
NABEK	NAA1	NAQF	2
NASRAH	HONA	HOST	4
NAWA	DRNA	DRCM	10
QTIFEH	NAQF	DAST	4
QTIFEH	NAQF	NAA1	3
QUNEITRA	QUAI	DASA	4
QUNEITRA	QUAI	DAST	2
RAKKA A (to RAB1)	RAA1 ****	ALST ****	8
RAKKA A (to RAB1)	RAA1 ****	DEA1 ****	6
RAKKA A (to RAB1)	RAA1 ****	RAAT ****	2
RAS AL AIN	AHRA	AHBI	4
RAS AL-BASSIT	LARB **	LADI	4
RASTAN	HORA	HAST	1
SAASA	DASA	DARI	2
SAASA	DASA	DAST	4
SAASA	DASA	QUAI	2
SAFITA B	SAB1	HOST	2
SAFITA B	SAB1	SADR	6
SAFITA B	SAB1	SAMA	4
SAFITA B	SAB1	TABI	6
SALAMIEH	HASA	HAST	2
SALKHAD	SWSA	SWBI	4
SANAMEIN	DRSA	DAST	1
SANAMEIN	DRSA	DRBI	5
SANAMEIN	DRSA	DRCM	2
SANAMEIN	DRSA	SWBI	3
SARAKEB	IDSA	MOA1	2
SARAKEB B4	MXB4 ***	IDBI	1
SFEIRA	ALSF	ALST	6
SHAHBA	SWSH	SWBI	4
SHEEN	HOSH	HOST	4
SLENFEH	LASL	LAST	4
SUKELBIEH	HASU	HAST	1
SULKEEN	IDSU	MOA1	1
SWEDA B	SWBI	DAST	2
SWEDA B	SWBI	DRBI	8
SWEDA B	SWBI	DRBA	3
SWEDA B	SWBI	DRCM	4
SWEDA B	SWBI	DRIZ	4
SWEDA B	SWBI	DRSA	4
SWEDA B	SWBI	SWBU	2
SWEDA B	SWBI	SWKR	3
SWEDA B	SWBI	SWSA	7
SWEDA B	SWBI	SWSH	4
TAFAS	DRTA	DRBI	4
TAFAS	DRTA	DRDA	3
TAL REFAAT	ALTR	ALEA	1
TALDO	HOTD	HOST	3
TALKALAKH	HOTA	HOST	4
TARTOU B	TABI	TAAR	4
TARTOU B	TABI	TACB	4

TARTOUS B  
TARTOUS B  
TARTOUS B  
TARTOUS B  
TARTOUS B

TABI  
TABI  
TABI  
TABI  
TABI

DAST  
HOST  
LAST  
SABI  
TABA

5  
2  
4  
2  
2

6  
6  
7  
  
6



**SUPPORTING 1-3 SERVICES PROVISION STRATEGY**



S1-3-1

Measures of Quality of Service



## **S1-3-1 Measures of Quality of Service Performance**

The following measures of Quality of Service Performance, recommended by ITU-T, should be seen as a long term target methodology for measuring and improving the service quality. The methodology is sophisticated because it is intended for use by network operators whose quality of service is already very good, which implies that more precise ways of analysing the various quality of service parameters are needed in order to continue to make improvements from the perception of the user.

### **Service support performance**

- mean service provisioning time (the average time between the receipt of the request of service from the customer and the actual time of provision of the service)
- billing error probability (the probability of an error when billing a user of a service)
- incorrect charging or accounting probability (the probability of a call attempt receiving incorrect charging or accounting treatment)
- undercharging probability (the probability that an effective call will be undercharged for any reason).
- overcharging probability (the probability that an effective call will be overcharged for any reason)
- billing integrity probability (the probability that the billing information presented to the user correctly reflects the type, destination and duration of the call).

### **Service operability performance**

- service user mistake probability (the probability of a mistake made by a user in his attempt to use the service)
- dialling mistake probability (the probability that the user of a telecommunication network makes dialling mistakes during his call attempts)
- service user abandonment probability (the probability that a user abandons the attempt to use a service)
- call abandonment probability (the probability that a user abandons the call attempt to a telecommunication network)

## Serviceability performance

- service accessibility; service access probability (the probability that a service can be obtained within specified tolerances and other given operating conditions when requested by the user)
- mean service access delay (the expectation of the time duration between an initial bid by the user for the acquisition of a service and the instant when the user has access to the service)
- network accessibility (the probability that the user of a service after a request receives the proceed-to-select signal within specified conditions)
- connection accessibility (the probability that a connection can be established within specified tolerances and other given conditions following receipt by the exchange of a valid code)
- mean access delay (the expectation of the time duration between the first call attempt made by a user of a telecommunications network to reach another user or a service and the instant the user reaches the wanted user/service)
- accessibility of a connection to be established (the probability that a switched connection can be established, within specified transmission tolerances, to the correct destination, within a given time interval, when requested by the user.
- unacceptable transmission probability (the probability of a connection being established with an unacceptable speech path transmission quality)
- no tone probability (the probability of a call attempt encountering no tone following receipt of a valid code by the exchange)
- mis-routing probability (the probability of a call attempt being mis-routed following receipt by the exchange of a valid code)
- service retainability (the probability that a service, once obtained, will continue to be provided under given conditions for a given time duration)
- connection retainability (the probability that a connection, once obtained, will continue to be provided under given conditions for a given time duration)
- retainability of an established connection (the probability that a switched connection, once established, will operate within specified transmission tolerances without interruption for a given time period)
- premature release probability; cut-off call probability (the probability that an established connection will be released for a reason other than intentionally by any of the parties involved in the call)
- release failure probability (the probability that the required release of a connection will not take place)
- successful service completion (the probability that a connection can be established, under satisfactory operating conditions, and retained for a given time interval)

### **Service Integrity (Transmission performance)**

- bit error rate (BER) (the ratio of the number of errors to the total number of bits transmitted in a given time interval)
- error free seconds (the ratio of the number of one-second intervals during which no bits are received in error to the total number of one-second intervals in the time interval)





SUPPORTING 1-4 DEMAND FORECAST



S1-4-1

**Demand Forecast for Individual Exchange Centers**



## S1-4-1 (1/15) Demand Forecast for Individual Exchange Centers

### 1. DAMASCUS City

Center Name	1996	1997	1998	1999	2000	2005	2010
Al Nasser	35,500	36,100	36,600	37,200	37,700	38,200	38,700
Al Thawra	17,900	18,200	18,400	18,700	19,000	20,300	21,800
Kefr Souseh	25,000	25,400	25,700	26,100	26,500	28,800	31,300
Domar	15,700	16,000	16,200	16,500	16,700	18,000	19,400
Al Mohajrin	22,400	22,800	23,100	23,500	23,800	24,100	24,500
Jallaa	21,500	21,800	22,100	22,500	22,800	24,200	25,800
Bab Sharki	37,000	37,500	38,100	38,600	39,200	42,200	45,600
MazzeH 1	20,100	20,400	20,700	21,000	21,300	21,500	21,700
MazzeH 2	21,300	21,600	21,900	22,300	22,600	24,600	26,800
Al Miedan	31,400	31,900	32,300	32,800	33,300	36,500	40,100
Al Yarmouk	42,500	43,200	43,800	44,400	45,100	48,600	52,600
Rokn Al Dien	18,300	18,600	18,800	19,100	19,400	21,400	23,500
Barzeh	28,700	29,100	29,500	30,000	30,400	33,500	37,000
Bagdad	48,000	48,700	49,400	50,200	50,900	53,500	56,400
[New Area]	42,000	42,400	43,400	43,700	44,500	52,300	59,700
<TOTAL>	427,300	433,700	440,000	446,600	453,200	487,700	524,900

### 2. DAMASCUS Rural (1/2)

Center Name	1996	1997	1998	1999	2000	2005	2010
Tall	19,300	19,600	19,900	20,200	20,500	22,500	24,900
Doma	21,700	22,000	22,300	22,700	23,000	25,700	28,700
Harsta	16,800	17,000	17,300	17,500	17,800	19,300	21,000
Daryah	10,800	11,000	11,200	11,300	11,500	11,900	12,400
Katana	5,000	5,100	5,100	5,200	5,300	5,600	5,800
Alhamah	10,000	10,100	10,300	10,400	10,600	11,100	11,600
Aldmeer	3,000	3,100	3,100	3,200	3,200	3,500	3,800
Alfegi	3,800	3,800	3,900	3,900	4,000	4,300	4,500
Adraa	2,000	2,000	2,000	2,100	2,100	2,300	2,400
Keswa	4,000	4,000	4,100	4,100	4,200	4,400	4,600
Sydnya	3,400	3,400	3,500	3,500	3,600	3,700	3,800
Alnashabeh	2,100	2,100	2,100	2,200	2,200	2,400	2,500
Artouse	5,500	5,500	5,500	5,500	5,500	5,500	5,500
Sehnaya	5,300	5,400	5,400	5,500	5,600	6,000	6,300
Kora Alassad	2,700	2,800	2,800	2,900	2,900	3,200	3,400
Alnabek	10,700	10,800	11,000	11,100	11,300	12,100	13,000
Yabrod	6,200	6,300	6,400	6,500	6,600	7,300	8,000
Koltefeh	3,900	3,900	4,000	4,000	4,100	4,300	4,600
Derattiah	4,200	4,300	4,400	4,400	4,500	4,800	5,200
Alrahaybeh	3,900	3,900	4,000	4,000	4,100	4,500	4,900
Jerod	4,900	5,000	5,000	5,100	5,200	5,700	6,200
Zamalka	12,500	12,700	12,900	13,100	13,300	14,100	15,100

## S1-4-1 (2/15) Demand Forecast for Individual Exchange Centers

### 2. DAMASCUS Rural (2/2)

Center Name	1996	1997	1998	1999	2000	2005	2010
Mallola	1,300	1,300	1,400	1,400	1,400	1,400	1,500
Einteneh	500	500	500	500	500	500	500
Karra	3,300	3,300	3,400	3,400	3,500	3,800	4,100
Zabadani	20,200	20,500	20,800	21,100	21,400	22,000	22,800
Jaramana	5,600	5,600	5,600	5,600	5,600	5,600	5,600
Babela	4,700	4,700	4,700	4,700	4,700	4,700	4,700
Tawani	800	800	800	800	800	900	1,000
Yabos	200	200	200	200	200	200	200
Haranal Awameed	800	900	900	900	900	1,100	1,200
Heneh	500	500	500	500	500	500	600
Halbon	600	600	600	600	600	700	800
Khanalshah	1,700	1,800	1,800	1,900	1,900	2,100	2,400
Al Demas	100	100	100	100	100	100	100
Wadi Barda	1,300	1,300	1,400	1,400	1,400	1,400	1,500
Rankus	1,700	1,700	1,700	1,800	1,800	2,000	2,300
Sassaa	900	1,000	1,000	1,000	1,000	1,200	1,300
Kozlanea	200	200	200	200	200	300	300
Essalalward	2,200	2,300	2,300	2,400	2,400	2,700	3,100
Alotibeeh	500	500	500	500	500	500	600
Hafeer Foka	500	500	500	500	500	600	700
Zakeah	1,700	1,800	1,800	1,900	1,900	2,100	2,400
Aemeh	1,100	1,100	1,200	1,200	1,200	1,400	1,500
Kanaker	1,200	1,200	1,300	1,300	1,300	1,400	1,600
Beatgen	1,400	1,400	1,400	1,500	1,500	1,700	1,900
Raes Al Maara	1,100	1,100	1,100	1,200	1,200	1,400	1,600
Kafar Haour	800	800	900	900	900	1,000	1,100
Jandal	800	800	800	800	800	900	1,000
Sabeebyar	800	800	800	800	800	900	1,000
Meshrfeh	200	200	200	200	200	300	300
Horjalleh	200	200	200	200	200	300	300
Hosharab	200	200	200	200	200	300	300
Hejanee	700	700	700	700	700	800	900
Nasreah	1,000	1,000	1,000	1,100	1,100	1,200	1,400
Derali	300	300	300	300	300	400	400
Sahl	500	500	500	500	500	500	600
Kastal	200	200	200	200	200	200	200
Maaroneh	400	400	400	400	400	400	500
Mlehaa	2,200	2,200	2,200	2,200	2,200	2,200	2,200
Abadi	100	100	100	100	100	100	100
Mouod MJA Alsham	1,800	2,300	2,400	2,700	3,100	3,600	4,200
Thayat Ai Assad	500	500	500	500	500	500	500
Mneen	3,600	3,600	3,700	3,700	3,800	4,500	5,200
<TOTAL>	230,100	233,500	237,000	240,500	244,100	262,600	282,700

## S1-4-1 (3/15) Demand Forecast for Individual Exchange Centers

### 3-1. Aleppo (City Area)

Center Name	1996	1997	1998	1999	2000	2005	2010
Aljameleha	41,100	41,300	41,500	41,900	42,100	42,400	42,700
Alsabele	27,600	28,000	28,400	28,900	29,300	32,300	35,500
Kan-Alwazeer	37,300	37,900	38,400	39,000	39,600	42,600	45,900
Alsolymaneyeh	23,000	23,300	23,700	24,000	24,400	25,200	26,000
Hananow	32,500	33,000	33,500	34,000	34,500	39,300	44,400
Alansari	20,900	21,200	21,600	21,900	22,200	22,900	23,600
Alhamdaneyeh	27,600	28,000	28,400	28,900	29,300	32,000	34,800
[New Area]	25,600	26,300	27,000	27,600	28,400	32,100	36,300
<City-TOTAL>	235,600	239,000	242,500	246,200	249,800	268,800	289,200

### 3-2. Aleppo (Rural Area 1/2)

Center Name	1996	1997	1998	1999	2000	2005	2010
Albab	4,000	4,000	4,100	4,100	4,200	4,500	4,800
Manbeg	4,200	4,300	4,300	4,400	4,500	4,800	5,100
Sfera	3,300	3,300	3,300	3,400	3,500	3,700	3,900
Efreen	2,800	2,900	2,900	2,900	3,000	3,100	3,200
Aezaz	2,600	2,600	2,700	2,700	2,700	2,700	2,700
Ein Alarab	3,100	3,200	3,200	3,300	3,300	3,700	4,100
Jarablos	3,500	3,500	3,600	3,600	3,700	4,300	4,800
Tal Refaet	1,000	1,100	1,100	1,100	1,100	1,100	1,200
Daret Ezza	900	1,000	1,000	1,000	1,000	1,100	1,200
Nobbel	1,600	1,600	1,700	1,700	1,700	1,800	2,000
Marea	1,200	1,200	1,300	1,300	1,300	1,400	1,600
Jendeares	1,000	1,000	1,000	1,100	1,100	1,200	1,300
Atareb	1,000	1,000	1,000	1,000	1,100	1,200	1,300
Hreatan	800	800	800	800	800	800	1,000
Dier Hafer	800	800	800	800	800	900	1,000
Maskaneh	700	700	700	700	700	800	900
Shiekhadied	700	700	700	700	700	800	900
Hadder	700	700	700	700	700	800	900
Soran	600	600	700	700	700	800	900
Alrae	1,100	1,100	1,200	1,200	1,200	1,200	1,200
Aktarien	1,500	1,500	1,500	1,500	1,600	1,600	1,600
Rajo	100	100	100	100	100	100	100
Maabattle	100	200	200	200	200	200	200
Alkafsseh	200	200	200	200	200	300	300
Alzarah	300	300	300	300	300	300	300
Bolbul	100	100	100	100	100	100	100
Shuokhe	100	100	100	100	100	100	100

# S1-4-1 (4/15) Demand Forecast for Individual Exchange Centers

## 3-2. Aleppo (Rural Area 2/2)

Center Name	1996	1997	1998	1999	2000	2005	2010
Kanaser	100	100	100	100	100	100	100
Abou Kolkul	100	100	100	100	100	100	100
Sharan	100	100	100	100	100	100	100
Kandoura	100	100	100	100	100	100	100
Sireen	200	200	200	200	200	200	200
Ariemeh	100	100	100	100	100	100	100
Rasm Hormol	100	100	100	100	100	100	100
Koubersi Sharki	100	100	100	100	100	100	100
Banan	100	100	100	100	100	100	100
Abticeen	100	100	100	100	100	100	100
Wadiehi	100	100	100	100	100	100	100
Tal Shkieb	100	100	100	100	100	100	100
Mesielmieh	100	100	100	100	100	100	100
Absemou	200	200	200	200	200	200	200
Abien	200	200	200	200	200	200	200
Haeyyan	200	200	200	200	200	200	200
Kofer Hamra	100	100	100	100	100	100	100
Ahtiemlat	600	600	600	600	600	700	800
Bzzaeah	600	600	600	700	700	800	900
Kabasien	600	600	600	700	700	800	900
Abou Jrien	100	100	100	100	100	100	100
Tal Hassel	200	200	200	200	200	200	200
Tal Iren	200	200	200	200	200	200	200
Kofer Janeh	100	100	100	100	100	100	100
Basouta	100	100	100	100	100	100	100
Bablimon	100	100	100	100	100	100	100
Sadteshreen	800	800	800	900	900	1,000	1,200
Zammar	200	200	200	200	200	200	200
Tal Hedyah	200	200	200	200	200	200	200
Tal Thaman	600	700	700	700	700	800	900
Hajeb	100	100	100	100	100	100	100
Tadef	400	400	400	400	400	500	600
<Rural-TOTAL>	45,000	45,700	46,400	47,100	47,800	51,400	55,400
<<Aleppo-TOTAL>>	280,600	284,700	288,900	293,300	297,600	320,200	344,600



## SI-4-1 (5/15) Demand Forecast for Individual Exchange Centers

### 4. HOMS

Center Name	1996	1997	1998	1999	2000	2005	2010
Alkwatli	36,400	36,900	37,500	38,000	38,600	41,000	43,800
Almahtta	28,900	29,400	29,800	30,300	30,700	32,800	35,200
Alwaer	32,900	33,500	34,000	34,500	35,300	39,200	43,700
Kosser	4,000	4,000	4,100	4,100	4,200	4,400	4,600
Tadmor	5,500	5,600	5,600	5,700	5,800	6,200	6,600
Talkalakh	4,300	4,400	4,500	4,500	4,600	4,800	5,000
Alrastan	7,300	7,400	7,500	7,600	7,700	8,200	8,800
Almkaram	2,900	3,000	3,000	3,100	3,100	3,300	3,500
Alkareyten	2,300	2,300	2,300	2,400	2,400	2,500	2,600
Sheen	1,800	1,800	1,800	1,900	1,900	2,000	2,100
Talbeseh	2,500	2,500	2,500	2,600	2,600	2,700	2,900
Taldo	1,700	1,700	1,700	1,800	1,800	1,900	2,000
Alnasra	6,600	6,600	6,700	6,700	6,800	6,800	6,800
Kattene	1,300	1,300	1,400	1,400	1,400	1,400	1,500
Alsoqneh	1,200	1,200	1,300	1,300	1,300	1,400	1,500
Alhwash	900	1,000	1,000	1,000	1,000	1,100	1,200
Alhessen	1,100	1,100	1,200	1,200	1,200	1,300	1,400
Habnomra	700	700	700	700	700	700	800
Hesyeh	800	800	800	800	800	900	1,000
Sadad	900	1,000	1,000	1,000	1,000	1,100	1,200
Mokaebarat	900	1,000	1,000	1,000	1,000	1,100	1,300
Fahel	500	500	500	500	500	500	600
Maheen	700	700	700	700	700	800	900
Meshferfeh	900	900	900	1,000	1,000	1,100	1,200
Rabah	700	700	700	700	700	800	900
Rkama	800	800	800	800	800	900	1,000
Alkabo	500	500	500	500	500	600	600
Alforkles	400	400	400	400	400	500	500
Kfram	400	400	400	400	400	500	500
Jobaljerah	200	200	200	200	200	200	200
Ein Nesser	200	200	200	200	200	200	200
Alhadedh	100	100	100	100	100	200	200
Teen Nor	100	100	100	100	100	100	100
Dbeen	100	100	100	200	200	200	200
Ramalenze	100	100	100	100	100	200	200
Kfrnan	100	100	100	100	100	200	200
Eisson	100	100	100	100	100	200	200
Taeabeh	100	100	100	100	100	200	200
Alkom	100	100	100	100	100	200	200
Khrbetal	200	200	200	200	200	200	200
Breage	100	100	100	100	100	100	100
<TOTAL>	151,300	153,600	155,800	158,200	160,500	172,700	185,900

# S1-4-1 (6/15) Demand Forecast for Individual Exchange Centers

## 5. HAMA (1/2)

Center Name	1996	1997	1998	1999	2000	2005	2010
Hama	21,300	21,600	21,900	22,300	22,600	25,000	28,100
Kowalle	24,700	25,100	25,400	25,800	26,200	27,100	27,900
SalammeH	13,200	13,400	13,600	13,800	14,000	15,400	16,900
Mesyaf	4,500	4,600	4,700	4,700	4,800	5,000	5,200
Mhardeh	6,600	6,700	6,800	6,900	7,000	7,500	8,100
Skelbeyeh	5,000	5,100	5,100	5,200	5,300	5,500	5,800
Kamhaneh	1,000	1,100	1,100	1,100	1,100	1,100	1,100
Tal Salhab	2,100	2,100	2,100	2,200	2,200	2,200	2,200
Sorran	1,500	1,500	1,500	1,600	1,600	1,600	1,700
Karnaz	500	500	500	500	500	500	600
Teabtalleman	1,300	1,300	1,400	1,400	1,400	1,600	1,800
Wadialeuone	1,200	1,200	1,300	1,300	1,300	1,400	1,600
Shatha	900	1,000	1,000	1,000	1,000	1,200	1,300
Kofrzeta	900	1,000	1,000	1,000	1,000	1,200	1,300
Latamnnaeh	600	600	600	600	600	600	700
Mork	800	800	900	900	900	1,000	1,100
Kofrnabodeh	500	500	500	500	500	500	600
Kattabe	500	500	500	500	500	500	600
Sabborra	900	900	900	900	1,000	1,000	1,100
Tal Dorah	800	800	800	800	900	900	1,000
Bare Sharke	400	400	400	400	400	400	500
Alsaan	300	300	300	300	300	300	300
Kofrbahem	800	800	800	800	800	800	900
Rabeah	500	500	500	500	500	500	500
Akrab	200	200	200	200	200	200	200
Jobranleh	400	400	400	400	400	500	500
Awage	300	300	300	300	300	300	300
Hor Bnafsoh	200	200	200	200	200	200	200
Ein Hlakeem	500	500	500	500	500	500	500
Okerbat	100	100	100	100	100	100	100
Alhamra	100	100	100	100	100	100	100
Kalet Al Mateke	1,500	1,500	1,500	1,600	1,600	1,700	1,800
Zeyara	100	100	200	200	200	200	200
Asreyah	200	200	200	200	200	300	300
Mabougeh	200	200	200	200	200	200	200
Akareb	600	600	600	600	600	700	800
AsharneH	300	300	300	300	300	300	300
Frekeh	100	100	100	100	100	200	200
Jomasseh	100	100	100	100	100	200	200
Jeed	100	100	100	100	100	200	200

## S1-4-1 (7/15) Demand Forecast for Individual Exchange Centers

### 5. HAMA (2/2)

Center Name	1996	1997	1998	1999	2000	2005	2010
Treansch	800	800	800	900	900	1,100	1,200
Der Mama	800	800	800	800	800	900	1,000
Der Shmeal	400	400	400	400	400	500	500
Mahroseh	300	300	300	300	300	400	400
Baareen	400	400	400	400	400	400	500
Nessaf	300	300	300	300	300	400	400
Meryamen	300	300	300	300	300	400	400
Asseleh	600	600	600	600	600	600	700
Barshen	200	200	200	200	200	300	300
Deralsaleep	100	100	100	100	200	200	200
Ein Krom	400	400	400	400	500	500	600
Merdash	100	100	100	100	100	200	200
Hwayjeh	100	100	100	100	100	100	100
Jowreen	100	100	100	100	100	100	100
Marshhoor	200	200	300	300	300	300	300
Bserren	300	300	300	300	300	400	400
<TOTAL>	101,200	102,700	104,200	105,800	107,400	115,500	124,300

### 6. QUENNETRA

Center Name	1996	1997	1998	1999	2000	2005	2010
Albaath	2,100	2,200	2,200	2,200	2,200	2,300	2,400
Jobataa Khashab	1,000	1,000	1,000	1,000	1,000	1,000	1,200
Nabh Al Sakher	400	400	500	500	500	500	500
Kossebeh	300	300	300	300	300	300	300
Hadar	1,000	1,000	1,000	1,000	1,000	1,100	1,300
Alrafeed	100	100	100	100	100	200	200
Beer Ajam	300	300	300	300	300	400	400
Masara	400	400	400	400	400	500	500
Seedah	100	100	100	100	100	200	200
<TOTAL>	5,700	5,800	5,900	5,900	5,900	6,500	7,000

S1-4-1 (8/15) Demand Forecast for Individual Exchange Centers

7. LATTAKIA

Center Name	1996	1997	1998	1999	2000	2005	2010
Lattakia	42,000	42,700	43,300	43,700	44,600	48,100	52,200
Teshreen	33,700	34,200	34,700	35,200	35,700	38,600	42,100
Al Shatea Al Azrak	1,500	1,500	1,500	1,500	1,500	1,500	1,500
Races Al Baseet	600	600	600	600	600	600	600
Alhafeh	2,500	2,600	2,600	2,700	2,700	2,900	3,000
Slonfeh	1,300	1,300	1,400	1,400	1,400	1,500	1,600
Kerdaha	11,300	11,500	11,700	11,800	12,000	12,600	13,200
Kasab	2,400	2,400	2,400	2,500	2,500	2,500	2,600
Jableh	20,700	21,100	21,400	21,700	22,000	23,500	25,400
Aldaleah	3,100	3,200	3,200	3,300	3,300	3,400	3,600
Beat Yashot	2,400	2,400	2,400	2,500	2,500	2,700	2,800
Bahlolah	700	700	700	700	700	700	800
Ein Albeatha	800	800	800	800	800	900	1,000
Kotelbeah	1,700	1,700	1,700	1,800	1,800	2,000	2,200
Alkanjarah	900	900	1,000	1,000	1,000	1,100	1,200
Salleptorkman	1,000	1,000	1,100	1,100	1,100	1,200	1,300
Haman Al Karahelh	700	700	700	700	700	700	700
Okeabeh	600	600	600	600	600	700	700
Jobt Al Borkkal	200	200	200	200	200	200	200
Fakorah	700	700	700	700	700	800	900
Dower Babdah	300	300	300	300	300	400	400
Kastal Maaf	300	300	300	300	300	400	400
Mzerah	300	300	300	300	300	300	300
Harf Msetreh	600	600	600	600	600	600	700
Ein Teneh	300	300	300	300	300	400	400
Kansbah	700	700	800	800	800	900	1,000
Rabeaah	200	200	200	300	300	300	300
Karfees	300	300	300	300	400	400	400
Salma	400	400	400	400	400	500	500
Hanadi	300	300	300	300	400	400	400
Ein Shkak	100	100	100	100	100	200	200
Tarabez	100	100	100	100	100	200	200
Seyno	100	100	100	100	100	200	200
Saloreen	100	100	100	100	100	200	200
Mtoor	300	300	300	400	400	400	400
<TOTAL>	133,200	135,200	137,200	139,200	141,300	152,000	163,600

## SI-4-1 (9/15) Demand Forecast for Individual Exchange Centers

### 8. DARAA

Center Name	1996	1997	1998	1999	2000	2005	2010
Daraa	20,800	21,100	21,400	21,600	22,000	23,200	24,500
Ezrae	2,000	2,000	2,000	2,000	2,100	2,300	2,400
Nawa	3,600	3,600	3,700	3,700	3,800	4,100	4,500
Shayke Maskeen	2,100	2,100	2,100	2,100	2,200	2,400	2,500
Taffas	1,900	1,900	1,900	1,900	2,000	2,100	2,300
Dael	2,100	2,100	2,100	2,100	2,200	2,400	2,500
Jassen	1,800	1,800	1,800	1,900	1,900	2,000	2,100
Kazzaleh	1,500	1,500	1,600	1,600	1,600	1,700	1,800
Alhrak	1,400	1,400	1,500	1,500	1,500	1,600	1,700
Sanamen	2,200	2,200	2,200	2,300	2,300	2,400	2,600
Bosra	1,900	1,900	1,900	2,000	2,000	2,200	2,300
Bosra Al Hareer	500	500	500	500	500	500	600
Tseel	800	900	900	900	900	1,000	1,100
Tal Shhab	400	400	400	400	400	400	500
Jbab	800	900	900	900	900	1,100	1,200
Aljezzeh	1,400	1,400	1,500	1,500	1,500	1,700	1,900
Alharh	1,500	1,500	1,600	1,600	1,600	1,800	2,000
Kabab	600	600	600	600	600	600	700
Alshajrah	400	400	400	400	400	500	500
Scedah	1,200	1,200	1,200	1,300	1,300	1,500	1,700
Altebah	800	900	900	900	900	1,000	1,100
Khabakeb	600	600	600	600	600	700	800
Alkark	600	600	600	600	600	600	700
Shames	200	200	200	200	200	200	200
Mahajeh	800	800	800	800	800	900	1,000
Mssefreh	1,200	1,200	1,200	1,300	1,300	1,400	1,600
Mesemyh	200	200	200	200	200	200	200
Jbeb	600	600	600	600	600	600	700
Sahmal Jolan	500	500	500	500	500	500	600
Naseeb	300	300	300	300	300	300	300
Enkel	1,400	1,400	1,400	1,500	1,500	1,700	1,900
Karayh	1,300	1,300	1,300	1,400	1,400	1,600	1,800
Jelen	100	200	200	200	200	200	200
Asyem	400	400	400	400	400	500	500
Almal	100	100	100	100	100	100	100
Zemreen	200	300	300	300	300	300	300
Tesyah	100	200	200	200	200	200	200
Alkheen	100	100	100	100	100	100	100
<TOTAL>	58,400	59,300	60,100	61,000	61,900	66,600	71,700

## SI-4-1 (10/15) Demand Forecast for Individual Exchange Centers

### 9. TARTOUS

Center Name	1996	1997	1998	1999	2000	2005	2010
Tartous	37,300	37,800	38,400	38,700	39,500	42,500	46,000
Banyas	9,200	9,400	9,500	9,700	9,800	10,500	11,300
Safetta	10,800	11,000	11,200	11,300	11,500	12,200	13,000
Dreakesh	2,700	2,800	2,800	2,900	2,900	3,000	3,100
Sheakbadoer	1,700	1,700	1,700	1,800	1,800	1,800	1,800
Erwad	600	600	600	600	600	600	600
Mashta	4,300	4,400	4,500	4,500	4,600	4,700	4,900
Hossen	1,800	1,800	1,800	1,900	1,900	2,100	2,200
Al Baher Alkadoms	700	700	700	700	700	700	800
Hemen	800	800	800	800	800	900	1,000
Dower Rslan	1,300	1,300	1,400	1,400	1,400	1,500	1,700
Sofsafeh	800	900	900	900	900	1,000	1,100
Thafer Safra	800	800	800	900	900	1,000	1,100
Alhamedeah	800	800	900	900	900	1,100	1,200
Enazzeah	500	500	500	500	500	600	600
Bhaneen	500	500	500	500	500	500	600
Kerbial Meazeh	700	700	700	700	700	800	900
Bromanet Al Mashyekh	700	700	700	700	700	700	800
Alremal	400	400	400	400	400	400	500
Karemeh	100	100	100	100	100	200	200
Dower Saacd	100	100	100	100	100	200	200
Ein Zarkah	100	100	100	100	100	200	200
Jenent Roslan	600	600	600	600	600	600	700
Albeatha	100	100	100	100	100	200	200
Taenetta	500	500	500	500	500	500	600
Hresson Kamoca	700	700	700	700	700	700	800
Taleen	600	600	600	600	600	600	700
Altawaheen	100	100	100	200	200	200	200
Hamam Wassel	100	100	100	200	200	200	200
Kamssch	200	200	200	200	200	300	300
Racs Kashofeh	100	100	100	100	100	100	100
Sesneah	100	100	100	100	100	100	100
Alrakmech	200	200	200	200	200	300	300
Albarkeah	300	300	300	300	300	400	400
Alsebeh	100	100	100	200	200	200	200
Fajlect	300	300	300	300	300	400	400
Alnacameh	400	400	400	400	400	400	500
Aljerweyah	400	400	400	400	400	500	500
Enaash Al Reef	100	100	100	100	100	200	200
<TOTAL>	81,600	82,800	84,000	85,300	86,500	93,100	100,200

## SI-4-1 (11/15) Demand Forecast for Individual Exchange Centers

### 10. IDLEB (1/2)

Center Name	1996	1997	1998	1999	2000	2005	2010
Idleb	18,500	18,700	19,000	19,300	19,600	20,800	22,200
Jessr.Shkour	6,900	7,000	7,100	7,200	7,300	7,600	7,900
Harem	1,200	1,200	1,200	1,300	1,300	1,300	1,400
Aldana	1,600	1,600	1,700	1,700	1,700	1,700	1,800
Kofer-Takariem	1,600	1,600	1,700	1,700	1,700	1,800	1,900
Arieha	7,400	7,600	7,700	7,800	7,900	8,700	9,500
Selkien	2,700	2,800	2,800	2,900	2,900	3,000	3,100
Maert Alneaman	7,300	7,500	7,600	7,700	7,800	8,100	8,500
Maert Misrien	5,700	5,700	5,800	5,900	6,000	6,400	6,900
Srakeb	5,500	5,500	5,600	5,700	5,800	6,200	6,700
Kan Shekhon	4,700	4,800	4,800	4,900	5,000	5,500	6,100
Kofer Noboel	1,100	1,100	1,200	1,200	1,200	1,200	1,300
Ahsem	800	800	800	800	800	900	1,000
Abou Althohour	400	400	400	400	400	500	500
Bensh	4,100	4,100	4,200	4,200	4,300	4,800	5,300
Alkenyah	2,500	2,600	2,600	2,700	2,700	3,000	3,400
Jarjanaz	500	500	500	500	500	500	600
Heash	700	700	700	700	700	800	900
Sarmada	800	900	900	900	900	1,000	1,100
Sarmien	1,100	1,100	1,100	1,200	1,200	1,400	1,500
Kelly	500	500	500	500	500	600	600
Darkoush	500	500	500	500	500	500	600
Bdama	500	500	500	500	500	500	600
Taftanaz	600	600	600	600	600	700	800
Mhambel	300	300	300	300	300	400	400
Korganiah	200	200	200	200	200	200	200
Sinjar	200	200	200	200	200	200	200
Janodieah	500	500	500	500	500	500	600
Assffes	100	100	100	100	100	200	200
Maaret Nassan	500	500	500	500	500	500	600
Khan Sobel	400	400	400	400	400	400	400
Maardabseh	200	200	200	200	200	200	200
Afrayah	200	200	200	200	200	200	200
Barahe	200	200	200	200	200	200	200
Rami	200	200	200	200	200	200	200
Kinsfrah	200	200	200	200	200	300	300
Almare Alakdar	200	200	200	200	200	200	200
Termanien	200	200	200	200	200	200	200
Armanaz	800	900	900	900	900	1,000	1,100
Tal Mins	500	600	600	600	600	600	700
Kafroumeh	300	300	400	400	400	400	500
Maar Shourien	200	200	200	200	300	300	300

S1-4-1 (12/15) Demand Forecast for Individual Exchange Centers

10. IDLEB (2/2)

Center Name	1996	1997	1998	1999	2000	2005	2010
Maasaran	300	300	300	300	400	400	500
Habiet	400	400	400	400	500	500	600
Kfor Ouaed	200	200	200	200	200	300	300
Maartahremeh	100	100	100	100	100	200	200
Altebe	200	200	200	200	200	300	300
Kfor Signeeh	100	100	100	100	100	200	200
Alaleyah	200	200	200	200	200	300	300
Azmarien	300	300	300	300	300	400	400
Atmeenh	200	200	200	200	200	300	300
<TOTAL>	84,600	85,900	87,200	88,500	89,800	96,600	104,000

11. SWEDA

Center Name	1996	1997	1998	1999	2000	2005	2010
Sweda	20,200	20,500	20,800	21,100	21,400	22,700	24,400
Shahaba	2,500	2,600	2,600	2,700	2,700	2,800	2,900
Salkad	1,900	1,900	1,900	2,000	2,000	2,100	2,100
Al Qraya	1,400	1,400	1,500	1,500	1,500	1,600	1,600
Alkarye	800	800	800	800	800	900	1,000
Al Thaaleh	800	800	800	800	800	800	900
Hazem	100	100	100	100	100	100	100
Aldour	800	800	800	800	800	900	1,000
Alsegen	700	700	700	700	700	800	900
Shagah	900	1,000	1,000	1,000	1,000	1,200	1,300
Mshanaf	300	300	300	300	300	400	400
Erra	1,300	1,300	1,400	1,400	1,400	1,500	1,700
Imtan	500	500	500	500	500	500	600
Arekah	500	500	500	500	500	500	600
Alkafer	1,100	1,100	1,200	1,200	1,200	1,300	1,400
Sawarah	800	800	800	800	800	900	1,000
Najran	400	400	400	400	400	500	500
Namra	800	800	800	800	800	900	1,000
Malahe	300	300	300	300	300	400	400
Shwet Blat	300	400	400	400	400	500	500
Dibeen	400	400	400	400	500	500	600
Kanawat	1,400	1,400	1,400	1,500	1,500	1,700	1,900
Al Raha	500	500	500	500	600	600	700
Orman	600	600	600	600	700	700	800
<TOTAL>	39,300	39,900	40,500	41,100	41,700	44,800	48,300



## S1-4-1 (13/15) Demand Forecast for Individual Exchange Centers

### 12. Der Al Zor

Center Name	1996	1997	1998	1999	2000	2005	2010
Der Al Zor	20,200	20,500	20,800	21,200	21,500	23,700	25,300
Mayadine	5,600	5,600	5,700	5,800	5,900	6,100	6,500
Boukmal	4,700	4,800	4,800	4,900	5,000	5,100	5,300
Abou Hamam	1,000	1,100	1,100	1,100	1,100	1,100	1,300
Bssyreh	500	500	500	500	500	500	600
Shaafeh	300	300	300	300	300	300	300
Seal Shrki	200	200	200	200	200	300	300
Shheel Sharki	300	300	300	300	300	300	300
Alashara	2,000	2,000	2,000	2,100	2,100	2,300	2,600
Al Graneeg	600	600	600	600	600	600	700
Alkataeh	600	600	600	600	600	700	800
Mouhasen	800	900	900	900	900	1,000	1,100
Hajien	800	900	900	900	900	1,000	1,100
Altabni	200	200	200	200	200	200	200
Alsouar	700	700	700	700	700	800	900
Shmictieh	200	200	200	200	200	300	300
Kasrra	500	500	500	500	500	500	600
Souseh	600	600	600	600	600	600	700
Kourieh	800	800	800	800	800	900	1,000
Kriettah	200	200	200	200	200	200	200
Kataah	200	200	200	200	200	200	200
Ksham	600	600	600	600	600	600	700
Mrat	200	200	200	200	200	200	200
Albahrah	200	200	200	200	200	200	200
Kishkkieh	200	200	200	200	200	300	300
Bagous	200	200	200	200	200	200	200
Bokros	300	300	300	300	300	400	400
Zbarie	200	200	200	200	200	200	200
Fatsseh	300	300	300	300	300	300	400
Mahkan	300	300	300	300	300	300	300
Thieban	700	700	700	700	700	800	900
Jerthi-Sharki	200	200	200	200	200	200	200
Tayaneh	300	300	300	300	300	300	300
Abou Hardoob	200	200	200	200	200	200	200
Drneky	100	100	100	100	200	200	200
Dablan	200	200	200	200	300	300	300
Sbiekan	500	500	600	600	600	600	700
Tishrien	200	200	300	300	300	300	300
Spheratahtani	500	500	600	600	600	600	700
Alsalehyah	100	100	100	100	200	200	200
<TOTAL>	46,500	47,200	47,900	48,600	49,400	53,100	57,200

# S1-4-1 (14/15) Demand Forecast for Individual Exchange Centers

## 13. AL HASAKA

Center Name	1996	1997	1998	1999	2000	2005	2010
Hasakah	22,600	22,800	23,200	23,400	23,900	25,000	26,100
Kamesjje	27,200	27,600	28,000	28,400	28,900	31,600	34,500
Amodah	2,500	2,600	2,600	2,700	2,700	2,900	3,100
Ras Alein	2,500	2,600	2,600	2,700	2,700	2,900	3,000
Malkiah	2,600	2,700	2,700	2,700	2,800	2,900	3,100
Derbasieh	2,000	2,000	2,000	2,100	2,100	2,200	2,400
Shadadi	1,300	1,300	1,300	1,400	1,400	1,500	1,700
Kahtaniah	1,500	1,500	1,500	1,600	1,600	1,800	2,000
Tal Tamor	900	900	900	1,000	1,000	1,000	1,100
Markadah	800	900	900	900	900	1,000	1,100
Yaeroubiah	900	900	1,000	1,000	1,000	1,100	1,200
Rmielan	1,200	1,200	1,300	1,300	1,300	1,400	1,600
Jawadiah	800	800	900	900	900	1,000	1,100
Tal Hamecs	800	800	900	900	900	1,000	1,100
Ber Al Helow	800	800	800	800	800	900	1,000
Al Arieshea	800	800	800	800	800	900	1,000
Twieni	200	200	200	200	200	300	300
Misheerfeh	100	100	100	100	100	100	100
Ajajeh Sharki	200	200	200	200	200	300	300
Safeh	100	100	100	100	100	100	100
Manajeer	100	100	100	100	100	100	100
Abou Raseen	500	500	500	500	500	500	500
Alhoul	200	200	200	200	200	200	200
Sfyah	600	600	600	600	600	600	700
Tal Maerouf	600	600	600	600	600	600	700
Tal Hormus	600	600	600	600	600	600	700
Tal Adas	100	100	100	100	100	100	100
TAl Sokarah	200	200	200	200	200	300	300
Tal Alou	300	300	300	300	300	400	400
<TOTAL>	73,000	74,000	75,200	76,400	77,500	83,300	89,600

## S1-4-1 (15/15) Demand Forecast for Individual Exchange Centers

### 14. RAKKAH

Center Name	1996	1997	1998	1999	2000	2005	2010
Rakkah	22,300	22,600	22,900	23,200	23,600	25,000	26,900
Tal Abyath	1,900	1,900	1,900	2,000	2,000	2,100	2,300
Althaowrah	4,300	4,300	4,400	4,400	4,500	5,000	5,500
Maadan	900	900	900	900	900	1,000	1,100
Alkaramah	400	400	400	400	400	500	500
Alsabkah	700	700	700	700	700	800	900
Manssorah	500	500	500	500	500	600	600
Einessa	200	200	200	200	200	200	200
Stook	300	300	300	300	300	300	300
Jornneah	100	100	100	100	100	100	100
Alhamrat	500	500	500	500	500	500	600
Salhabeah	200	200	200	200	200	200	200
Tahamam	100	100	100	100	100	100	100
Hamam	100	100	100	100	100	100	100
Khas Owjeel	400	400	400	400	400	500	500
Sofsaffeh	100	100	100	100	100	100	100
Ejeedden	100	100	100	100	100	100	100
Debsi Afnan	100	100	100	100	100	100	100
Kanem Ali	400	400	400	400	400	400	500
Okersh	200	300	300	300	300	300	300
Debsi Farage	100	100	100	200	200	200	200
Hattleh	100	100	200	200	200	300	300
Keas Daakoor	100	200	200	200	200	300	300
Ralleh	100	100	100	100	100	200	200
<TOTAL>	34,200	34,700	35,200	35,700	36,200	39,000	42,000

**SUPPORTING 1-5 DEMAND FULFILLMENT PLAN AND  
TRAFFIC FORECAST**

S1-5-1

**Demand Fulfillment Plan for Individual Exchange Centers**



S1-5-1 Demand Fulfillment Plan (Exchange Center Base: 1/15)

1. DAMASCUS (City Area)

Center	1996	1997	1998	1999	2000
Al Nasser	34,900	35,600	36,300	37,000	37,700
Al Thawra	11,200	13,200	15,100	17,100	19,000
Kefr Souseh	13,100	16,500	19,900	23,200	26,500
Domar	9,200	11,100	13,000	14,900	16,700
Al Mohajrin	21,700	22,200	22,700	23,300	23,800
Jallaa	14,300	16,400	18,600	20,700	22,800
Bab Sharki	21,100	25,600	30,200	34,700	39,200
MazzeH 1	20,100	20,400	20,700	21,000	21,300
MazzeH 2	10,800	13,800	16,700	19,700	22,600
Al Miedan	14,300	19,100	23,900	28,600	33,300
Al Yarmouk	23,900	29,200	34,500	39,800	45,100
Rokn Al Dien	8,000	10,900	13,700	16,600	19,400
Barzeh	12,000	16,600	21,300	25,900	30,400
Bagdad	35,600	39,500	43,300	47,100	50,900
[New Area]	5,900	15,900	25,900	35,600	44,500
<TOTAL>	256,100	306,000	355,800	405,200	453,200

2-1 DAMASCUS (Rural Area)

Center	1996	1997	1998	1999	2000
Tall	8,800	11,900	15,100	18,000	20,500
Doma	8,600	12,500	16,300	19,900	23,000
Harsta	9,400	11,700	13,800	16,000	17,800
Daryah	9,400	10,000	10,500	11,100	11,500
Katana	4,100	4,400	4,800	5,100	5,300
Alhamah	7,900	8,600	9,300	10,000	10,600
Aldmeer	2,000	2,400	2,700	3,000	3,200
Alfegi	2,900	3,200	3,500	3,800	4,000
Adraa	1,500	1,700	1,800	2,000	2,100
Keswa	3,300	3,600	3,800	4,000	4,200
Sydnaya	3,200	3,300	3,400	3,500	3,600
Alnashabeh	1,500	1,700	1,900	2,100	2,200
Artouse	5,500	5,500	5,500	5,500	5,500
Sehnaya	4,200	4,600	5,000	5,400	5,600
Kora Alassad	1,700	2,000	2,400	2,700	2,900
Alnabek	6,700	7,900	9,100	10,300	11,300
Yabrod	3,000	4,000	4,900	5,800	6,600
Kottefeh	2,700	3,100	3,400	3,800	4,100
Derattiah	2,700	3,200	3,700	4,100	4,500
Alrahaybeh	2,100	2,600	3,200	3,700	4,100
Jerod	2,800	3,500	4,100	4,700	5,200
Zamalka	8,500	9,800	11,000	12,200	13,300

SI-5-1 Demand Fulfillment Plan (Exchange Center Base: 2/15)

2-2 DAMASCUS (Rural Area)

Center	1996	1997	1998	1999	2000
Mallola	1,000	1,100	1,200	1,300	1,400
Einteneh	500	500	500	500	500
Karra	1,900	2,300	2,700	3,100	3,500
Zabadani	17,600	18,600	19,600	20,500	21,400
Jaramana	5,600	5,600	5,600	5,600	5,600
Babela	4,700	4,700	4,700	4,700	4,700
Tawani	300	400	600	700	800
Yabos	100	100	100	200	200
Haranal Awameed	300	500	600	800	900
Heneh	200	300	400	400	500
Halbon	100	200	400	500	600
Khanalshah	600	1,000	1,300	1,600	1,900
Al Demas	100	100	100	100	100
Wadi Barda	1,000	1,100	1,200	1,300	1,400
Rankus	400	800	1,100	1,500	1,800
Sassaa	400	600	700	900	1,000
Kozlanea	100	100	200	200	200
Essalalward	600	1,100	1,600	2,000	2,400
Alotebeeh	100	200	300	400	500
Hafeer Foka	100	200	300	400	500
Zakeah	500	900	1,200	1,600	1,900
Aerneh	600	800	900	1,100	1,200
Kanaker	400	600	900	1,100	1,300
Beatgen	500	800	1,000	1,300	1,500
Raes Al Maara	200	500	700	1,000	1,200
Kafar Haour	500	600	700	800	900
Jandal	100	300	400	600	800
Sabeebyar	100	300	400	600	800
Meshrfeh	100	100	200	200	200
Horjalleh	100	100	200	200	200
Hosharab	100	100	200	200	200
Hejaneh	200	300	500	600	700
Nasreah	300	500	700	900	1,100
Derali	200	200	300	300	300
Sahl	100	200	300	400	500
Kastal	100	100	100	200	200
Maaroneh	100	200	300	300	400
Mlehaa	2,200	2,200	2,200	2,200	2,200
Abadi	0	0	0	100	100
Mouod MJA Alsham	100	900	1,700	2,400	3,100
Thayat Al Assad	500	500	500	500	500
Mneen	300	1,300	2,200	3,100	3,800
<TOTAL>	145,500	172,200	198,000	223,100	244,100



S1-5-1 Demand Fulfillment Plan (Exchange Center Base: 3/15)

3-1 Aleppo (City Area)

Center	1996	1997	1998	1999	2000
Aljameleha	40,400	40,800	41,200	41,700	42,100
Alsabele	11,500	15,900	20,200	24,700	29,300
Kan-Alwazeer	21,200	25,700	30,200	34,800	39,600
Alsolymaneyeh	19,900	21,000	22,100	23,300	24,400
Hananow	6,000	13,000	20,000	27,100	34,500
Alansari	18,000	19,000	20,000	21,100	22,200
Alhamdaneyeh	13,400	17,300	21,200	25,200	29,300
[New Area]	5,500	11,300	16,800	22,400	28,400
< City-TOTAL >	135,900	164,000	191,700	220,300	249,800

3-2-1 Aleppo (Rural Area)

Center	1996	1997	1998	1999	2000
Albab	2,900	3,400	3,600	3,900	4,200
Manbeg	3,400	3,900	4,100	4,300	4,500
Sfera	2,700	3,000	3,200	3,400	3,500
Efreen	2,600	2,700	2,800	2,900	3,000
Aezaz	2,600	2,600	2,700	2,700	2,700
Ein Alarab	1,500	2,100	2,500	2,900	3,300
Jarablos	1,200	2,000	2,600	3,200	3,700
Tal Refact	900	1,000	1,100	1,100	1,100
Daret Ezza	500	700	800	900	1,000
Nobbel	800	1,000	1,300	1,500	1,700
Marea	400	600	800	1,100	1,300
Jendeares	400	600	800	900	1,100
Atareb	400	600	800	900	1,100
Hreatan	300	400	600	700	800
Dier Hafer	300	400	600	700	800
Maskaneh	300	400	500	600	700
Shiekhadied	100	200	400	500	700
Hadder	100	200	400	500	700
Soran	200	300	500	600	700
Alrae	1,100	1,100	1,200	1,200	1,200
Aktarien	1,500	1,500	1,500	1,500	1,600
Rajo	100	100	100	100	100
Maabattle	100	100	100	100	200
Alkafsseh	100	100	200	200	200
Alzarah	200	200	200	200	300
Bolbul	100	100	100	100	100
Shuokhe	100	100	100	100	100

SI-5-1 Demand Fulfillment Plan (Exchange Center Base: 4/15)

3-2-2 Aleppo (Rural Area)

Center	1996	1997	1998	1999	2000
Kanaser	100	100	100	100	100
Abou Kolkul	100	100	100	100	100
Sharan	0	0	0	100	100
Kandoura	100	100	100	100	100
Sireen	100	100	100	100	200
Ariemeh	0	0	0	100	100
Rasm Hormol	0	0	0	100	100
Koubersi Sharki	0	0	0	100	100
Banan	100	100	100	100	100
Abticeen	0	0	0	100	100
Wadiehi	0	0	0	100	100
Tal Shkieb	0	0	0	100	100
Mesielmich	0	0	0	100	100
Absemou	100	100	100	100	200
Abien	100	100	100	100	200
Hacyyan	100	100	100	100	200
Kofer Hamra	0	0	0	100	100
Ahtiemat	100	200	400	500	600
Bzzaeah	200	300	500	600	700
Kabasien	200	300	500	600	700
Abou Jrien	0	0	0	100	100
Tal Hassel	100	100	100	100	200
Tal Iren	100	100	100	100	200
Kofer Janeh	0	0	0	100	100
Basouta	0	0	0	100	100
Bablimon	0	0	0	100	100
Sadteshreen	0	200	400	600	900
Zammar	100	100	100	100	200
Tal Hedyah	100	100	100	100	200
Tal Thaman	100	200	400	500	700
Hajeb	0	0	0	100	100
Tadef	0	100	200	300	400
<Rural-TOTAL>	26,700	31,900	37,200	42,500	47,800
<Aleppo Total>	162,600	195,900	228,900	262,800	297,600

SI-5-1 Demand Fulfillment Plan (Exchange Center Base: 5/15)

4. HOMS

Center	1996	1997	1998	1999	2000
Alkwatli	23,600	27,400	31,100	34,700	38,600
Almahitta	17,900	21,000	24,200	27,300	30,700
Alwaer	10,900	16,900	22,900	28,800	35,300
Kosser	3,000	3,300	3,600	3,900	4,200
Tadmor	3,400	4,000	4,600	5,200	5,800
Talkalakh	3,300	3,600	3,900	4,200	4,600
Alrastan	4,600	5,400	6,100	6,900	7,700
Almkaram	1,800	2,100	2,400	2,700	3,100
Alkareyten	1,800	1,900	2,100	2,200	2,400
Sheen	1,500	1,600	1,700	1,800	1,900
Talbeseh	1,700	1,900	2,100	2,400	2,600
Taldo	1,400	1,500	1,600	1,700	1,800
Alnasra	6,600	6,600	6,700	6,700	6,800
Kattene	1,000	1,100	1,200	1,300	1,400
Alsoqneh	600	800	900	1,100	1,300
Alhwash	600	700	800	900	1,000
Alhessen	500	700	800	1,000	1,200
Habnomra	500	600	600	700	700
Hesyeh	100	300	400	600	800
Sadad	500	600	800	900	1,000
Mokaebarat	100	300	500	800	1,000
Fahel	100	200	300	400	500
Maheen	200	300	500	600	700
Mesherfeh	300	500	600	800	1,000
Rabah	300	400	500	600	700
Rkama	200	300	500	600	800
Alkabo	300	400	400	500	500
Alforktes	200	300	300	400	400
Kfram	200	300	300	400	400
Jobaljerah	100	100	100	200	200
Ein Nesser	200	200	200	200	200
Alhadedh	0	0	100	100	100
Teen Nor	0	0	0	100	100
Dbeen	100	100	100	200	200
Ramalenze	0	0	100	100	100
Kfman	0	0	100	100	100
Eisson	0	0	100	100	100
Tacabeh	0	0	100	100	100
Alkom	0	0	100	100	100
Khrbetal	200	200	200	200	200
Breage	100	100	100	100	100
<TOTAL>	87,900	105,700	123,700	141,700	160,500

S1-5-1 Demand Fulfillment Plan (Exchange Center Base:6/15)

5-1 HAMA

Center	1996	1997	1998	1999	2000
Hama	5,200	9,400	13,500	17,600	22,600
Kowattle	21,900	23,000	24,100	25,100	26,200
SalammeH	5,300	7,400	9,500	11,500	14,000
Mesyaf	3,700	4,000	4,200	4,500	4,800
Mhardeh	3,800	4,600	5,400	6,100	7,000
SkelbeyeH	3,900	4,200	4,600	4,900	5,300
KamhaneH	1,000	1,000	1,000	1,000	1,100
Tal Salhab	2,000	2,000	2,100	2,100	2,200
Sorran	1,100	1,200	1,300	1,400	1,600
Karnaz	200	300	300	400	500
Teabtalleman	400	700	900	1,200	1,400
Wadialeuone	400	600	800	1,100	1,300
Shatha	300	500	700	800	1,000
Kofrzeta	300	500	700	800	1,000
Latamnaeh	200	300	400	500	600
Mork	400	500	700	800	900
Kofrnabodeh	200	300	300	400	500
Kattabe	200	300	300	400	500
Sabborra	500	600	700	800	1,000
Tal Dorah	500	600	700	800	900
Bare Sharke	100	200	200	300	400
Alsaan	200	200	200	300	300
Kofrbahem	400	500	600	700	800
Rabeah	400	400	400	500	500
Akrab	100	100	100	200	200
Jobramleh	200	300	300	400	400
Awage	100	100	200	200	300
Hor Bnafsoh	100	100	100	200	200
Ein Hlakeem	400	400	400	500	500
Okerbat	0	0	0	100	100
Alhamra	100	100	100	100	100
Kalet Al Mateke	1,100	1,200	1,400	1,500	1,600
Zeyara	0	0	100	100	200
Asrreyah	0	100	100	200	200
Mabougeh	100	100	100	200	200
Akareb	200	300	400	500	600
AsharneH	100	100	200	200	300
Frekeh	0	0	100	100	100
JomasseH	0	0	100	100	100
Jeed	0	0	100	100	100

S1-5-1 Demand Fulfillment Plan (Exchange Center Base:7/15)

5-2 HAMA

Center	1996	1997	1998	1999	2000
Treamseh	200	400	600	700	900
Der Mama	300	400	600	700	800
Der Shineal	200	300	300	400	400
Mahroseh	100	200	200	300	300
Baareen	100	200	200	300	400
Nessaf	200	200	300	300	300
Meryamen	100	200	200	300	300
Asselah	200	300	400	500	600
Barshen	100	100	200	200	200
Deralsaleep	0	0	100	100	200
Ein Krom	200	300	300	400	500
Merdash	0	0	100	100	100
Hwayjeh	0	0	0	100	100
Jowreen	0	0	0	100	100
Marshhoor	200	200	200	300	300
Bserren	200	200	300	300	300
<TOTAL>	57,200	69,200	81,400	93,800	107,400

6. QUENNETRA

Center	1996	1997	1998	1999	2000
Albaath	1,800	2,000	2,000	2,100	2,200
Jobataa Khashab	400	500	600	800	1,000
Nabh Al Sakher	300	300	400	400	500
Kossebeh	200	200	200	300	300
Hadar	300	500	700	900	1,000
Alrafeed	0	0	100	100	100
Beer Ajam	200	200	300	300	300
Masara	200	300	300	400	400
Seedah	0	0	100	100	100
<TOTAL>	3,400	4,000	4,700	5,400	5,900

SI-5-1 Demand Fulfillment Plan (Exchange Center Base: 8/15)

7. LATTAKIA

Center	1996	1997	1998	1999	2000
Lattakia	23,000	28,500	33,600	39,100	44,600
Teshreen	17,500	22,100	26,500	31,000	35,700
Al Shatea Al Azrak	1,500	1,500	1,500	1,500	1,500
Races Al Baseet	500	500	500	600	600
Alhafeh	2,000	2,200	2,400	2,600	2,700
Slonfeh	1,000	1,100	1,200	1,300	1,400
Kerdaha	8,700	9,600	10,400	11,200	12,000
Kasab	2,100	2,200	2,300	2,400	2,500
Jablch	12,000	14,600	16,900	19,400	22,000
Aldateah	2,400	2,600	2,800	3,100	3,300
Beat Yashot	1,800	2,000	2,200	2,400	2,500
Bahlolah	400	500	500	600	700
Ein Albeatha	400	500	600	700	800
Kotelbeah	800	1,100	1,300	1,600	1,800
Alkanjarah	500	600	800	900	1,000
Salleptorkman	400	600	700	900	1,100
Haman Al Karahelh	500	500	600	600	700
Okeabeh	400	500	500	600	600
Jobt Al Borkkal	200	200	200	200	200
Fakorah	200	300	500	600	700
Dower Babdah	200	200	300	300	300
Kastal Maaf	200	200	300	300	300
Mzerah	300	300	300	300	300
Harf Msetreh	200	300	400	500	600
Ein Tench	200	200	300	300	300
Kansbah	200	300	500	600	800
Rabeaah	200	200	200	300	300
Karfees	200	200	300	300	400
Salma	300	300	400	400	400
Hanadi	200	200	300	300	400
Ein Shkak	0	0	100	100	100
Tarabez	0	0	100	100	100
Seyno	0	0	100	100	100
Saloreen	0	0	100	100	100
Mtoor	300	300	300	400	400
<TOTAL>	78,800	94,400	110,000	125,700	141,300

S1-5-1 Demand Fulfillment Plan (Exchange Center Base: 9/15)

8. DARAA

Center	1996	1997	1998	1999	2000
Daraa	14,800	16,500	18,500	20,000	22,000
Ezrae	1,400	1,600	1,800	1,900	2,100
Nawa	1,800	2,300	2,900	3,300	3,800
Shayke Maskeen	1,400	1,600	1,800	2,000	2,200
Taffas	1,000	1,200	1,500	1,700	2,000
Dael	1,400	1,600	1,800	2,000	2,200
Jassen	1,400	1,500	1,700	1,800	1,900
Kazzaleh	1,200	1,300	1,400	1,500	1,600
Alhrak	1,100	1,200	1,300	1,400	1,500
Sanamen	1,300	1,500	1,800	2,000	2,300
Bosra	1,200	1,400	1,600	1,800	2,000
Bosra Al Hareer	100	200	300	400	500
Tseei	300	400	600	700	900
Tal Shhab	100	200	200	300	400
Jbab	200	400	600	700	900
Aljezzeh	400	700	900	1,200	1,500
Alharrh	400	700	1,000	1,300	1,600
Kabab	300	400	400	500	600
Alshajarh	200	300	300	400	400
Seedah	200	500	700	1,000	1,300
Alttebah	300	400	600	700	900
Khabakeb	200	300	400	500	600
Alkark	300	400	400	500	600
Shames	200	200	200	200	200
Mahajeh	200	300	500	600	800
Mssefreh	400	600	800	1,100	1,300
Mesemyh	100	100	100	200	200
Jbeb	200	300	400	500	600
Sahmal Jolan	200	300	300	400	500
Naseeb	100	100	200	200	300
Enkel	500	800	1,000	1,300	1,500
Karayh	400	700	900	1,200	1,400
Jelen	100	100	100	200	200
Asyem	200	300	300	400	400
Almal	0	0	0	100	100
Zemreen	100	100	200	200	300
Tesyah	100	100	100	200	200
Alkheen	0	0	0	100	100
<TOTAL>	33,800	40,600	47,600	54,500	61,900

## S1-5-1 Demand Fulfillment Plan (Exchange Center Base:10/15)

## 9. TARTOUS

Center	1996	1997	1998	1999	2000
Tartous	20,800	25,600	30,100	34,300	39,500
Banyas	5,700	6,700	7,800	8,800	9,800
Safetta	7,300	8,500	9,400	10,500	11,500
Dreakesh	2,200	2,400	2,500	2,700	2,900
Sheakbadoer	1,700	1,700	1,700	1,800	1,800
Erwad	500	500	500	600	600
Mashta	3,600	3,800	4,100	4,300	4,600
Hossen	1,200	1,400	1,600	1,800	1,900
Al Baher Alkadoms	400	500	500	600	700
Hemen	400	500	600	700	800
Dower Rslan	400	600	900	1,100	1,400
Sofsafeh	400	500	700	800	900
Thaher Safra	400	500	700	800	900
Alhamedeah	200	400	600	800	900
Enazzeh	300	400	400	500	500
Bhaneen	200	300	300	400	500
Kerbital Meazeh	300	400	500	600	700
Bromanet Al Mashyekh	300	400	500	600	700
Alremal	100	200	200	300	400
Karemeh	0	0	100	100	100
Dower Saaed	0	0	100	100	100
Ein Zarkah	0	0	100	100	100
Jenent Roslan	200	300	400	500	600
Albeatha	0	0	100	100	100
Taenetta	100	200	300	400	500
Hresson Kamoca	300	400	500	600	700
Taleen	200	300	400	500	600
Altawaheen	100	100	100	200	200
Hamam Wassel	100	100	100	200	200
Kamsseh	100	100	200	200	200
Raes Kashofeh	0	0	0	100	100
Sesneah	0	0	0	100	100
Alrakmeh	100	100	200	200	200
Albarkeah	200	200	300	300	300
Alsebeh	100	100	100	200	200
Fajleet	100	200	200	300	300
Alnaeameh	0	100	200	300	400
Aljerweyah	200	300	300	400	400
Enaash Al Reef	0	0	100	100	100
<TOTAL>	48,200	57,800	67,400	77,000	86,500



S1-5-1 Demand Fulfillment Plan (Exchange Center Base: 11/15)

10-1 IDLEB

Center	1996	1997	1998	1999	2000
Idleb	12,200	14,100	15,800	17,700	19,600
Jessr.Shkour	5,600	6,000	6,400	6,900	7,300
Harem	900	1,000	1,100	1,200	1,300
Aldana	1,400	1,500	1,500	1,600	1,700
Kofer-Takariem	1,200	1,300	1,500	1,600	1,700
Arieha	3,600	4,800	5,800	6,900	7,900
Selkien	2,300	2,400	2,500	2,700	2,900
Maert Alneaman	5,900	6,500	6,900	7,300	7,800
Maert Misrien	3,400	4,100	4,700	5,300	6,000
Srakeb	3,300	4,000	4,600	5,200	5,800
Kan Shekhon	2,000	2,800	3,500	4,300	5,000
Kofer Noboel	800	900	1,000	1,100	1,200
Ahsem	300	400	500	700	800
Abou Althohour	200	300	300	400	400
Bensh	1,600	2,300	3,000	3,600	4,300
Alkenyah	700	1,200	1,700	2,200	2,700
Jarjanaz	200	300	300	400	500
Heash	200	300	500	600	700
Sarmada	300	400	600	700	900
Sarmien	500	700	900	1,100	1,200
Kelly	300	400	400	500	500
Darkoush	200	300	300	400	500
Bdama	200	300	300	400	500
Taftanaz	200	300	400	500	600
Mhambel	100	200	200	300	300
Korganiah	100	100	100	200	200
Sinjar	100	100	100	200	200
Janodieah	200	300	300	400	500
Assffes	0	0	100	100	100
Maaret Nassan	200	300	300	400	500
Khan Sobel	200	200	300	300	400
Maardabseh	0	0	100	100	200
Afrayah	0	0	100	100	200
Barahe	0	0	100	100	200
Rami	0	0	100	100	200
Kinsfrah	100	100	200	200	200
Almare Alakdar	0	0	100	100	200
Termanien	0	0	100	100	200
Armanaz	400	500	700	800	900
Tal Mins	200	300	400	500	600
Kafrouneh	100	200	200	300	400
Maar Shourien	100	100	200	200	300

S1-5-1 Demand Fulfillment Plan (Exchange Center Base:12/15)

10-2 IDLEB

Center	1996	1997	1998	1999	2000
Maasaran	100	200	200	300	400
Habiet	100	200	300	400	500
Kfor Ouaed	100	100	200	200	200
Maartahremeh	0	0	100	100	100
Altehe	100	100	200	200	200
Kfor Signeeh	0	0	100	100	100
Alaleyah	100	100	200	200	200
Azmarien	100	200	200	300	300
Atmeenh	100	100	200	200	200
<TOTAL>	50,000	60,000	69,900	79,800	89,800

II. SWEDA

Center	1996	1997	1998	1999	2000
Sweda	12,500	14,500	16,900	18,800	21,400
Shahaba	2,200	2,300	2,500	2,600	2,700
Salkad	1,800	1,900	1,900	2,000	2,000
Al Qraya	1,300	1,400	1,400	1,500	1,500
Alkarye	400	500	600	700	800
Al Thaalch	400	500	600	700	800
Hazem	0	0	0	100	100
Aldour	300	400	600	700	800
Alsegen	200	300	500	600	700
Shagah	300	500	700	900	1,000
Mshanaf	100	200	200	300	300
Erra	500	700	900	1,200	1,400
Imtan	200	300	300	400	500
Arekah	200	300	300	400	500
Alkafer	600	700	900	1,000	1,200
Sawarah	200	300	500	600	800
Najran	200	300	300	400	400
Namra	300	400	600	700	800
Malahe	100	200	200	300	300
Schwet Blat	200	300	300	400	400
Dibeen	200	300	300	400	500
Kanawat	500	800	1,000	1,300	1,500
Al Raha	200	300	400	500	600
Orman	300	400	500	600	700
<TOTAL>	23,200	27,800	32,400	37,100	41,700

SI-5-1 Demand Fulfillment Plan (Exchange Center Base: 13/15)

12. Der Alzor

Center	1996	1997	1998	1999	2000
Dier Zor	13,900	16,400	17,900	20,100	21,500
Mayadine	4,000	4,400	4,800	5,300	5,900
Boukmal	4,000	4,200	4,400	4,700	5,000
Abou Hamam	300	500	700	800	1,100
Bssyreh	200	300	300	400	500
Shaafeh	100	100	200	200	300
Seal Shrki	0	100	100	200	200
Shheel Sharki	100	100	200	200	300
Alashara	600	900	1,300	1,700	2,100
Al Graneeg	200	300	400	500	600
Alkataeh	100	200	300	500	600
Mouhasen	300	400	600	700	900
Hajien	200	400	500	700	900
Altabni	100	100	100	200	200
Alsouar	100	200	400	500	700
Shmietieh	0	100	100	200	200
Kasrra	100	200	300	400	500
Souseh	100	200	300	400	600
Kourieh	300	400	500	700	800
Kriettah	0	0	100	100	200
Kataah	0	0	100	100	200
Ksham	100	200	300	400	600
Mrat	0	0	100	100	200
Albahrah	0	0	100	100	200
Kishkkieh	0	100	100	200	200
Bagous	0	0	100	100	200
Bokros	100	200	200	300	300
Zbarie	0	0	100	100	200
Fatsseh	0	100	100	200	300
Mahkan	100	100	200	200	300
Thieban	200	300	400	600	700
Jerthi-Sharki	0	0	100	100	200
Tayaneh	100	100	200	200	300
Abou Hardoob	0	0	100	100	200
Drneky	0	0	100	100	200
Dablan	100	100	200	200	300
Sbiekan	100	200	300	400	600
Tishrien	100	100	200	200	300
Spheratahtani	100	200	300	400	600
Alsalehyah	0	0	100	100	200
<TOTAL>	25,700	31,200	36,900	42,700	49,400

S1-5-1 Demand Fulfillment Plan (Exchange Center Base:14/15)

13. ALHASAKA

Center	1996	1997	1998	1999	2000
Hasakah	17,600	19,200	20,800	22,100	23,900
Kamesjle	12,100	16,100	20,300	24,200	28,900
Amodah	1,700	1,900	2,200	2,500	2,700
Ras Alein	2,000	2,200	2,400	2,500	2,700
Malkiah	1,800	2,000	2,300	2,500	2,800
Derbasieh	1,100	1,300	1,600	1,800	2,100
Shadadi	400	600	900	1,100	1,400
Kahtaniah	600	800	1,100	1,400	1,600
Tal Tamor	600	700	800	900	1,000
Markadah	200	400	600	700	900
Yaeroubiah	400	500	700	800	1,000
Rmielan	400	600	800	1,100	1,300
Jawadiah	300	400	600	700	900
Tal Hamces	200	400	500	700	900
Ber Al Helow	100	300	400	600	800
Al Arieshea	100	300	400	600	800
Twieni	100	100	200	200	200
Misheerfeh	0	0	0	100	100
Ajajeh Sharki	100	100	200	200	200
Safeh	100	100	100	100	100
Manajeer	0	0	0	100	100
Abou Raseen	400	400	400	500	500
Alhoul	100	100	100	200	200
Sfyah	300	400	400	500	600
Tal Maerouf	300	400	400	500	600
Tal Hormus	300	400	400	500	600
Tal Adas	0	0	0	100	100
TAl Sokarah	0	100	100	200	200
Tal Alou	100	200	200	300	300
<TOTAL>	41,400	50,000	58,900	67,700	77,500

S1-5-1 Demand Fulfillment Plan (Exchange Center Base: 15/15)

14. RAKKAH

Center	1996	1997	1998	1999	2000
Rakkah	13,300	15,800	18,500	20,300	23,600
Tal Abyath	1,200	1,400	1,600	1,800	2,000
Althaowrah	1,700	2,400	3,100	3,800	4,500
Maadan	500	600	700	800	900
Alkaramah	300	300	400	400	400
Alsabkah	300	400	500	600	700
Manssorah	300	400	400	500	500
Einessa	100	100	100	200	200
Stook	100	100	200	200	300
Jornneah	100	100	100	100	100
Alhamrat	200	300	300	400	500
Salhabeah	100	100	100	200	200
Talhamam	0	0	0	100	100
Hamam	0	0	0	100	100
Khas Owjeel	200	300	300	400	400
Sofsaffeh	0	0	0	100	100
Ejedden	0	0	0	100	100
Debsi Afnan	0	0	0	100	100
Kanem Ali	100	200	200	300	400
Okershi	200	200	200	300	300
Debsi Farage	100	100	100	200	200
Hattleh	100	100	200	200	200
Keas Daakoor	100	100	200	200	200
Rattleh	0	0	100	100	100
<TOTAL>	19,000	23,000	27,300	31,500	36,200

