ORIGINAL

1		BELLSOUTH TELECOMMUNICATIONS, INC.				
2		REBUTTAL TESTIMONY OF D. DAONNE CALDWELL				
3		BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION				
4	DOCKET NO. 990649-TP					
5		(PHASE 1)				
6		JUNE 29, 2000				
7						
8	Q.	PLEASE STATE YOUR NAME, ADDRESS AND OCCUPATION.				
9						
10	Α.	My name is D. Daonne Caldwell. My business address is 675 W. Peachtree St.,				
11		N.E., Atlanta, Georgia. I am a Director in the Finance Department of BellSouth				
12		Telecommunications, Inc. (hereinafter referred to as "BellSouth"). My area of				
13		responsibility relates to economic costs.				
14						
15	Q.	ARE YOU THE SAME D. DAONNE CALDWELL THAT FILED DIRECT				
16		TESTIMONY ON MAY 1, 2000 IN THIS DOCKET?				
17						
18	Α.	Yes.				
19						
20	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY?				
21						
22	A.	The purpose of my testimony is to respond to cost development issues raised in the				
23		testimony filed by intervening parties. Specifically, I respond to allegations made				
24		by AT&T/MCI WorldCom witness, Mr. Jeffrey King, BlueStar/Covad/Rhythms				
25		Links witness, Ms. Terry Murray, Supra witnesses, Ms. Carol Bentley and Mr.				

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1	David Nilson, and Z-Tel witness, Dr. George Ford concerning Issues 5, 6, and 7(d)					
2						
3	Issue 5: "For which signaling networks and call-related databases should rates					
4	be set?"					
5						
6	Q. PLEASE DESCRIBE THE COST SUPPORT BELLSOUTH DEVELOPED					
7	FOR UNBUNDLED SIGNALING NETWORKS AND DATABASES.					
8						
9	A. The Federal Communications Commission's ("FCC's") Third Report and Order					
10	defines BellSouth's obligations with respect to Signaling Networks and Call-					
11	Related Databases in Appendix C of that order. The FCC states that Signaling					
12	Networks include signaling links and signaling transfer points. Additionally,					
13	BellSouth is obligated to provide access to the signaling network "in the same					
14	manner in which it obtains such access itself."					
15						
16	In outlining BellSouth's obligations with respect to unbundling Call-Related					
17	Databases, the FCC states:					
18						
19	"an incumbent LEC shall provide access to its call-related					
20	databases, including but not limited to, the Calling Name					
21	Database, 911 Database, E911 Database, Line Information					
2 2	Database [LIDB], Toll Free Calling Database, Advanced					
23	Intelligent Network [AIN] Databases, and downstream number					
24	portability databases"					
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Thus, in response to these FCC mandates, BellSouth filed costs for 800 Access,
 Line Information Database ("LIDB") Access, and CCS7 Signaling Transport and
 database access items, Calling Name ("CNAM"), Local Number Portability
 ("LNP"), and E911.

5

6 Furthermore, the FCC also stated in Appendix C that BellSouth must "provide a 7 requesting telecommunications carrier the same access to design, create, test, and 8 deploy Advanced Intelligent Network-based services at the service management 9 system [SMS]." Thus, BellSouth developed TELRIC based costs for Service 10 Management System Access and AIN Toolkit. AIN Toolkit is a product designed to provide an ALEC with the ability to create and offer AIN service applications to 11 12 their end users. Service applications are created in a BellSouth-provided Service 13 Creation Environment ("SCE") using a BellSouth-provided Graphical User Interface ("GUI"). AIN SMS Access provides access to the SCE and supports 14 administrative activities (e.g., inputting end user specific data or accessing usage 15 reports) associated with the service applications that are created using AIN Toolkit. 16 17 O. AT&T/MCI WITNESS, MR. KING, INCLUDES DIRECTORY 18 ASSISTANCE ("DA") DATABASE ACCESS IN HIS LIST OF DATABASES 19 FOR WHICH THE COMMISSION SHOULD ESTABLISH RATES. IS 20

- 21 BELLSOUTH'S DA DATABASE A "CALL-RELATED DATABASE"?
- 22

A. No. The FCC did not identify DA database as a call-related database and it is not a
database that is "used in signaling networks for billing and collection or the
transmission, routing or other provision of telecommunications service." (Third

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Report and Order, ¶403) Furthermore, I explained in my direct testimony and as
 discussed by Mr. Varner, the FCC exempted operator services and directory
 assistance from an incumbent's unbundling obligations if the incumbent provides
 customized routing, which BellSouth does. (Third Report and Order, ¶441) It is my
 understanding that the issues concerning Operator Services/Directory Assistance
 will be considered in Phase II of this proceeding.

7

8 Q. Z-TEL WITNESS, DR. FORD, MAINTAINS THAT BELLSOUTH MUST
9 DEVELOP THE COST OF "INTERFACING BELLSOUTH SWITCHES
10 WITH Z-TEL PROVIDED CALL-RELATED DATABASES OR SCPS."
11 (PAGE 6) IS HE CORRECT?

12

13 A. No. The FCC rejected a similar request by Low Tech Designs that the FCC

14 mandate the interconnection of ALEC-provided AIN Service Control Points

15 ("SCPs"). The FCC stated: 'We decline this request because we find that there is

16 not enough evidence in the record to make a determination as to the technical

17 feasibility of interconnecting third-party SCPs and Intelligent Peripherals to

18 incumbent LECs' signaling networks." (Third Report and Order, ¶407) Thus,

19 BellSouth is not obligated by FCC rules to offer this interconnection.

20

21 Q. DID THE FCC LEAVE OPEN THE POSSIBILITY THAT A STATE

22 COMMISSION MAY ADDRESS THE ISSUE OF DIRECTLY

23 INTERCONNECTING AN ALEC'S SCP WITH BELLSOUTH'S

24 SIGNALING NETWORK?

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1	Α.	Yes. However, this Commission has already considered and rejected an ALEC's					
2		direct interconnection with BellSouth's SCP. In its Order No. PSC-96-1579-FOF-					
3		TP issued December 31, 1996, the Commission stated that "BellSouth shall be					
4		allowed to use mediation mechanisms as necessary" when allowing access to its					
5		SS7 network. (Page 21) While the Commission's decision did not directly address					
6		the interconnection between an ALEC's SCP and BellSouth's SS7 network, the					
7		rationale is the same. Thus, Z-Tel must interconnect its SCP with the mediation					
8		mechanism, i.e., BellSouth's Signal Transfer Point ("STP") gateway, in order to					
9		prevent intentional and unintentional disruption of BellSouth's network either for					
10		BellSouth's end users or the end users of the ALEC.					
11							
12	Q.	WHAT ARE MEDIATION DEVICES?					
13							
14	Α.	Mediation devices are computer programs which during call processing determine					
15		the effect of routing instructions or other information returned as a result of an SCI					

- 16 query and then cause appropriate activities to be taken. These devices evaluate the
- 17 request to determine if it is potentially harmful to BellSouth's network.
- 18

19 Q. HAS BELLSOUTH DEVELOPED COSTS THAT WOULD ALLOW Z-TEL

20 TO INTERCONNECT ITS SCP WITH BELLSOUTH'S NETWORK WITH 21 A MEDIATION DEVICE?

22

23 A Yes. However, as I have stated previously, Z-Tel must interconnect through

- 24 BellSouth's STP gateway, not directly to the end-office. In fact, this is the
- architecture BellSouth has deployed for its own SS7 network; SCPs connect with

1 STPs, which in turn connect to the end-office (Service Switching Point).

2

The cost study filed on April 17, 2000 contains all of the unbundled components
necessary to interconnect Z-Tel's SCP to BellSouth's STP; the facility between the
SCP and STP, the termination on the STP, and usage of BellSouth's SS7 network.

7 Q. DR. FORD ALLEGES THAT BELLSOUTH HAS DOUBLE COUNTED 8 THE COST OF THE AIN TRIGGERS. (PAGE 7) DO YOU AGREE WITH 9 DR. FORD?

10

A. No. Dr. Ford is clearly wrong. BellSouth has not "double counted" the cost of 11 12 AIN triggers as he alleges. Trigger costs associated with the end office have appropriately been captured in the vertical feature costs that BellSouth developed 13 since they are part of the features and functions provided by the switch. There are 14 no trigger-related investments in the AIN SMS or AIN Toolkit. Dr. Ford also 15 16 erroneously states that BellSouth "Trigger Access Charge" is unsupportable. Work 17 activities as outlined in the cost study are required in order to establish, route and 18 translate the specific type of trigger required by the ALEC. The labor costs associated with these activities are reflected in the cost study filed on April 17, 19 20 2000. 21 22 Issue 6: "Under what circumstances, if any, is it appropriate to recover non-23 recurring costs through recurring rates?"

24

25 Q. BLUESTAR/COVAD/RHYTHMS LINKS WITNESS, MS. MURRAY,

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STATES THAT NONRECURRING COSTS ARE SUNK COSTS. IS SHE CORRECT?

3

A. No. On page 4 of her testimony, Ms. Murray defines a sunk cost as "a cost that, 4 once incurred, a firm cannot recover if it ceases business." I agree that once 5 BlueStar/Covad/Rhythms pays BellSouth for provisioning a UNE, that cost is 6 7 "sunk" from BlueStar/Covad/Rhythms' viewpoint. However, presumably neither 8 BlueStar, Covad, Rhythms, nor any other ALEC, would incur a cost without anticipating recovering that cost from the ultimate end user. Once this Commission 9 10 establishes nonrecurring rates, BlueStar/Covad/Rhythms will know the up-front 11 costs it will incur and thus, what and how it needs to charge its end users in order 12 to conduct its business.

13

14 From a cost development perspective, BellSouth's sunk costs are excluded from consideration. After all, another definition of a sunk cost is a cost that has been 15 16 incurred in the past and cannot be changed by any current or future decision. Since 17 sunk costs were incurred "in the past," sunk costs are, by definition, embedded. 18 The FCC's TELRIC methodology specifically prohibits the inclusion of embedded 19 costs and thus, they are excluded from BellSouth's study. It is important to 20 remember that the nonrecurring activities associated with UNE provisioning are 21 only begun at the request of an ALEC. Thus, they cannot be "sunk". In other 22 words, only after an ALEC requests a UNE does BellSouth undertake activities to 23 provide the requested UNE. The ALEC initiates the actions and causes BellSouth 24 to incur costs for which BellSouth legitimately should be compensated.

Q. MS. MURRAY COMPARES THE LOOP INVESTMENT TO THE NONRECURRING COST TO DELOAD A LONG UNBUNDLED COPPER LOOP. (PAGES 9-11) IS HER COMPARISON VALID?

4

A. No. Ms. Murray's apples-to-oranges comparison is not particularly insightful since
there is no correlation between the two types of costs. Investments result from the
purchasing, engineering, and installing of equipment required to provide the UNE,
i.e., the physical plant. Nonrecurring costs are directly proportional to the amount
of time required to complete the task. The process of unloading a cable is
extremely labor-intensive, thus the perceived "high" cost.

11

12 However, even if one were to give some weight to Ms. Murray's argument, her 13 comparison is still flawed. Ms. Murray compares an activity performed in 14 conjunction with a long loop. Thus, assuming that the exercise in which she is 15 engaging was relevant, the proper comparison would be to the investment for the 16 same type of loop. For some reason, Ms. Murray compares the nonrecurring cost 17 associated with unloading an unbundled long loop to a 2-wire analog loop of 18 average length. For discussion purposes the investment associated with a 2-wire 19 unbundled copper loop $-\log is$ \$2,466, as compared to the investment used by 20 Ms. Murray of \$835.

21

As I explained in my direct testimony, BellSouth will unload only one pair at a time
for long copper loops in order to maintain the integrity of the other loops carrying
voice grade service within the same cable.

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Q. ARE THERE OTHER COMMENTS THAT MS. MURRAY MAKES THAT REOUIRE COMMENT?

3

4 A. Yes. There are several incorrect statements Ms. Murray makes in her testimony to
5 which I must respond. On page 8, she states that "BST has proposed a charge of
\$772.31 for removing the first load coil from a loop of greater than 18,000 feet."
(Emphasis added.) This is inaccurate. BellSouth's rate is to unload the entire loop,
8 not just to remove the first load coil. Within the study, an assumption was made as
9 to the average number of load coils that would be removed from each loop.

10

On page 9, Ms. Murray states: "it appears that BST is proposing to apply 11 nonrecurring 'conditioning' charges to every xDSL-capable loop, including those 12 that do not require 'conditioning'." Ms. Murray's statement misses the point. 13 BellSouth has endeavored to expand the universe of xDSL-capable loops for short 14 loops by unloading 10 pairs each time conditioning takes place. The cost has been 15 allocated among those 10 pairs. Thus, the ALEC pays only 1/10th of the total cost 16 when conditioning is requested on short loops. The additive is intended to recover 17 the portion of the cost for conditioning not recovered elsewhere; i.e., not recovered 18 from retail services or other requests for unbundled xDSL loops. It is projected 19 that of the 10 conditioned loops, an ALEC will purchase 2 and BellSouth will 20 utilize 4 pairs. That leaves 4 pairs whose conditioning costs will not be recovered. 21 BellSouth developed an additive that is applied to ADSL-compatible loops, HDSL-22 compatible loops, and UCLs in order to be compensated for the unrecovered costs 23 based on the probability of these xDSL lops requiring conditioning. 24

25

1 Also on page 9. Ms. Murray discusses additional nonrecurring charges she claims 2 may be required when an ALEC orders ADSL-compatible loops. She states that 3 the "total does not include any charges for manual service order processing, order 4 coordination, manual loop gualification, or specific loop 'conditioning'". (Page 9) 5 Ms. Murray is mistaken. Rebuttal Exhibit DDC-5 shows the input sheet BellSouth included in its April 17th filing. Currently, the first step is a Service Inquiry, i.e., 6 7 loop qualification. If the loop does not qualify, i.e., it does not meet the design 8 standards for an ADSL loop, BellSouth informs the ALEC and no charge is 9 assessed. Additionally, BellSouth informs the ALEC if the reason the loop does not qualify is because of load coils or bridge tap. At this point, the ALEC has the 10 11 option of requesting loop conditioning. If another xDSL loop would qualify (e.g., 12 UCL-Short), this information is also provided to the ALEC. Note in Exhibit DDC-13 5 that if the loop does qualify, order coordination is included in the nonrecurring 14 cost. 15 Q. SUPRA WITNESS, MR. NILSON, STATES THAT "NON-RECURRING 16 COSTS OF INFRASTRUCTURE, PURCHASE, AND CONSTRUCTION IS 17

- 18 A COST TO BE SHARED BY THE CARRIERS USING THE FACILITY,
- 19 OVER THE USEFUL LIFE OF THE FACILITY." (PAGE 9) DOES
- 20 BELLSOUTH'S COST STUDY FOR THE UNES UNDER
- 21 CONSIDERATION IN THIS PROCEEDING ADHERE TO THIS
- 22 **DEFINITION?**
- 23

24 A. Yes. Mr. Nilson is describing the capitalized labor included in the cable investment.

25 BellSouth considers these costs in its study through the use of in-plant factors that

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augment the material price to recognize the associated labor required to install the
cable. By including these labor costs as part of the investment, the cost is
recovered over the useful life of the plant. Additionally, because these costs are
spread over the life of the plant, AT&T/MCI witness, Mr. King's concern that "the
first user will be forced to pay more than its fair share" is a not an issue. (Page 6 of
King Testimony)

7

8 Q. MR. NILSON ALSO STATES THAT "TASK RELATED NON-

9 RECURRING COSTS ARE SPECIFIC TO A GIVEN CARRIERS ORDER 10 FOR A PARTICULAR SERVICE AND SHOULD REMAIN NON-

11 RECURRING COSTS." (PAGE 9) DOES BELLSOUTH AGREE?

12

A. Yes, at least from a cost development perspective. The Commission has the option 13 of mandating a recurring rate that is financially equivalent to the nonrecurring costs. 14 Additionally, the ALEC also has the option of charging the end user a recurring 15 rate to recover the nonrecurring cost paid to BellSouth. However, BellSouth's 16 cost study reflects the one-time costs that are unique to the request made by the 17 ALEC as nonrecurring costs. However, Mr. Nilson goes on to advocate that these 18 costs could be charged on an Individual Case Basis ("ICB"). The use of ICB billing 19 has been portrayed as a deterrent to the ALEC's ability to accurately project 20 expenditures. Thus, every attempt has been made in BellSouth's cost studies to 21 eliminate ICB charges. Nonrecurring costs are based upon standardized 22 procedures that are used throughout the BellSouth region. Work time estimates 23 reflect subject matter experts' anticipated average requirements. 24

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1 Q. ON PAGE 6, AT&T/MCI WITNESS, MR. KING, DISCUSSES 2 DISCONNECT COSTS. PLEASE COMMENT ON HIS OBSERVATIONS.

3 A. Mr. King confuses the disconnect issue by never distinguishing between 4 5 disconnecting unbundled elements and disconnecting combinations of UNEs. The 6 work effort to disconnect an unbundled element is very different from 7 disconnecting a combination. An unbundled element is not a working circuit; it is 8 only a piece of the network. Thus, an unbundled loop, for example, can never be placed in a "soft dial" tone state as Mr. King asserts. The costs BellSouth 9 10 calculated for UNE disconnect reflect the physical activities that must be 11 undertaken to disconnect each UNE. For loop/port combinations on a switch-as-is 12 basis, the disconnect costs have been paid by the end-user when they initially 13 purchased service. Thus, no additional disconnect costs are appropriate. For 14 loop/transport combinations, BellSouth must perform physical activities, as reflected in the cost study; in order to disconnect the circuit and disconnect costs 15

- 16 should apply.
- 17

O. ON PAGE 5 OF HIS TESTIMONY, MR. KING APPEARS TO QUESTION 18

19 **BELLSOUTH'S ADHERENCE TO THE FCC'S TELRIC**

METHODOLOGY IN DEVELOPING NONRECURRING COSTS. 20

- 21 PLEASE COMMENT.
- 22

A. Mr. King states that often "nonrecurring charges are based on the activities the 23

- 24 ILEC has incurred in the past." (Page 5) To the extent Mr. King is implying that
- BellSouth has based its nonrecurring costs on an outdated process, he is mistaken. 25

1	BellSouth's nonrecurring studies are based upon anticipated work times and
2	forward-looking processes that exist today and will be used to provision UNEs for
3	the foreseeable future.
4	
5	Issue 7: "What are the appropriate assumptions and inputs for the following
6	items to be used in the forward-looking recurring UNE cost study?
7	
8	(d) tax rates.
9	
10	Q. SUPRA WITNESS, MS. BENTLEY STATES THAT "THE ILEC WILL
11	GENERALLY INCUR NO TAX LIABILITY IN THE UNE
12	ENVIRONMENT." (PAGE 10) IS SHE CORRECT?
13	
14	A. No. Some states and municipalities tax the revenues that a company receives from
15	services provided within the state/municipality. The taxes may be designed to fund
16	such things as PSC fees, franchise taxes, license taxes, or other similar items, but
17	because the taxes are levied on the basis of revenues they are commonly referred to
18	as a gross receipts tax. Unlike some taxes that are billed to the customer and flowed
19	through to the taxing authority, a gross receipts tax is a cost of doing business to
20	BellSouth. BellSouth receives revenues from the ALECs for the purchase of UNEs
21	and interconnection services and thus must pay this tax. Additionally, BellSouth
22	must pay an ad valorem tax based on the assessed value its property, including the
23	"property" which comprise UNEs leased by ALECs. City and county governments
24	levy these taxes. Both of these taxes are real costs to BellSouth that must be
25	considered in the cost study, as the Florida Commission has previously recognized.

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2	Additionally, Ms. Bentley's statement that "consideration for income taxes have
3	already been factored into the cost of capital" (Page 10) is not correct. It is true
4	that the impact of income taxes is taken into account during the calculation of the
5	capital portion of the annual cost factors. However, income tax is not considered in
6	the development of the cost of capital. Instead cost of capital is considered in the
7	calculation of the income tax expense. Income tax expense is the federal and state
8	taxes levied on "taxable income." While interest to bondholders is book expense
9	and deductible for income tax purposes, the federal government and most state
10	governments levy a tax on the revenues, which are earned to compensate
11	stockholders for the use of their money. BellSouth must pay income taxes on the
12	equity portion of return, but the debt portion is tax exempt.
13	
14	Q. DOES THIS CONCLUDE YOUR TESTIMONY?
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16	A. Yes.
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1	STATE:	FL						
2	COST ELEMENT #:	A.6.1				1		
3								
4	STUDY PERIOD:	2000-2002					1	
5					WORKTIMES SHOWN ARE IN HOURS			
			1			EBST		APPIL
6	DESCRIPTION	WORK CENTERS / WORK ACTIVITIES	SME	JEC	FIRST INSTALL	DISCONNECT	ADDTL INSTALL	DISCONNECT
7								
		CRSG receives firm order SI from CLEC and screens documents; CRSG					1	
		prepares/sends transmittals to OSPE for varification of facility availability. Upon	Interconn			1		
	SERVICE INQUIRY	completion of job, CRSG informs CLEC facilities are evailable.	Svcs.	SDWC	0.5356	0.4250	0.2678	0.2125
-			Interconn	JUNC	0.0350	0.4200	0.2070	0.2125
6	SERVICE INQUIRY	LCSC receives SI from CRSG, validates for accuracy and processes order.	Sycs.	230X	0.3900	0.5000	0.0867	0.1667
		OSPE reviews request, assigns FRN and returns SI to CRSG	Network	JG57	1.3000	0.0000	1.3000	0.0000
		SAC logs SI in/out which involves interaction with CRSG	Network	4FXX	0.2600	0.0000	0.2600	0.0000
H		CPG processes request; designs circuit and generates DLR & WORD document for						0.0000
12	ENGINEERING	CLEC and Field.	Network	4N4X	0.0825	0.0442	0.0450	0.0067
13	ENGINEERING	AFKG assigns loop facilities.	Network	4M1X	0.0400	0.0058	0.0400	0.0058
		UNEC pulls info, assigns to work forces; verifies & ensures accuracy of design;						
		creates cut sheets to verify reuse of facilities; ensures dispatch, performs frame						
		continuity and due date coordination and testing; performs manual order				ł		
14	CONNECT & TURN-UP TESTING	coordination	Network	4AXX	1.4212	0.4823	0.9651	0.0500
15	CONNECT & TURN-UP TESTING	WMC coordinates dispatched technicians.	Network	4WXX	0.2500	0.2500	0.0000	0.0000
16	CONNECT & TURN-UP TESTING	CO I&M Field wires circuit at collocation site.	Network	431X	0.2833	0.2125	0.1417	0.0992
		SSI&M processes order; places cross-connect at cross-box, checks continuity and	[1					
	CONNECT & TURN-UP TESTING	dial tone, resolves trouble, performs test from NID and completes order.	Network	411X	1.9210	0.7833	1.2710	0.1333
	TRAVEL	SSI&M dispatched to cross-box	Network	411X	0.3333	0.3333	0.0000	0.0000
19		······						
	ASSUMPTIONS:							
	1) Assumes 100% dispatch to connect.		1					
		t rate requiring menual intervention (RMA) - occurs with unbundling when loop terminates	other than in	the switch.				
	3) 90% of loops are new; 10% are reused facility							
	4) Fallout rate for AFIG is 30% on installs and 5% on disconnects.							
	5) UNEC and CO IRM Field (connect and test) times assume 15% of total are carried in other transport elements.							
	26 6) SSI4M travel is captured in Drop/NID investment.							
		and 10% remout on disconnects. s are adjusted by 52% to reflect situations when loop and modification are ordered at sam						
140	14) UNAU, LUAU, UAPE and SAC INCOMPONITIONS	e and entities in the organic structure when both and modules on the organic of same	E_01118.		<u> </u>	L		