

DELIVERABLE IDENTIFICATION

Identification number	LE2-4001--SD0.18
Type	Public Annual Report
Title	Management Report for the Period: 01 January 1997 – 31 December 1997
Status	Final
Deliverable	SD0.18
Work Package	WP 0
Task	
Period covered	01 January 1997 – 31 December 1997
Date	30 January 1998
Version	1.0
Number of pages	6
Author(s)	H. Tropf
Work package (WP) / Task (T) responsible	Siemens AG
Project contact point	Harald Höge, Siemens AG, ZT IK 5, D-81730 München Phone: +49 89 636 53374, Fax: +49 89 636 49802 E-mail: Harald.Hoegel@mchp.siemens.de
CEC project officer	Mats Ljungqvist
Status	Public
Actual distribution	Contractors, Assoc. Contractors, Subcontractors
Supplementary notes	
Key words	
Abstract	
Status of abstract	

Received on	
Recipients catalogue number	

DOCUMENT EVOLUTION

Version	Date	Status	Notes
1.0	30 Jan 1998	Final	

SpeechDat

Public Annual Report 1997

Deliverable SD0.18

1	Summary of the Year.....	4
2	Spoken Language Resources.....	4
	2.1 Types and coverage of SpeechDat databases.....	4
	2.2 Recording Platforms.....	4
	2.3 Recordings and Annotations.....	5
	2.4 Validation.....	6
3	Promotion and dissemination of results.....	6
4	Into 98.....	6
5	Reports.....	7

1

Summary of the Year

In 1997 following major achievements were made:

- ⊙ All 17 platforms to record the telephone speech for all 28 databases were validated with good results.
- ⊙ For a tight control a detailed plan was made on how many calls and annotations will be done for each database on a monthly basis.
- ⊙ Actual recordings have been made for 25 of the 28 speech databases ranging from 10 to 3700.
- ⊙ Actual annotations have been made for 24 of the 28 speech databases ranging from 10 to 3100.
- ⊙ Until December 1997 59.9 % of all recordings were collected and 47.2 % of all annotations were done.
- ⊙ Eight of eleven partial speech databases and two complete databases were submitted for validation.
- ⊙ Seven of these submitted databases were validated, six with positive results.
- ⊙ A few small SpeechDat(II) databases were offered to ELRA for distribution.
- ⊙ Six major awareness/promotion actions were performed.

The technical work is in good shape and there are no contractual or budgetary problems. For 1998 it can be expected that all 28 databases will be completely collected and annotated. All of them are most likely to pass the validation procedure and will then be offered to ELRA for distribution.

2 Spoken Language Resources

2.1 *Types and coverage of SpeechDat databases*

Within the SpeechDat Project spoken language resources are being created for training and testing automatic speech recognizers, which are used for voice driven teleservices to improve information and communication systems and services.

Three different types of telephone speech databases are being built up:

- ⊙ 20 databases for the fixed telephone network
- ⊙ 5 databases for the mobile telephone network
- ⊙ 3 for speaker verification via telephone

These 28 databases cover all 11 official European languages, some minority languages and major dialectal variants.

2.2 *Recording Platforms*

In 1997 all 17 platforms to record the telephone calls were validated with good results.

2.3 Recordings and Annotations

In order to have a tight control of the progress of work a detailed plan was made on how many calls and annotations are intended to collect for each database on a monthly basis.

Until December 1997 59.9 % of all recordings were collected and 47.2 % of all annotations were done. Actual recordings have been made for 25 of the 28 speech databases ranging from 10 to 3700. Actual annotations have been made for 24 of the 28 speech databases ranging from 10 to 3100. The exact figures per partner and database are shown in table 1 below.

Table 1: Cumulative numbers of planned and real recordings and annotations per database until December 1997

DB-ID	Partner	Type	Language (Variant)	Calls (Target)	Until Dec 1997			
					Recordings		Annotations	
					Plan	Real	Plan	Real
1	AUC	FDB	Danish	4000	3200	3076	2300	2158
2	L&H	FDB	Flemish	1000	1200	1200	740	758
3	L&H	FDB	Belgian French	1000	1200	1200	300	544
4	L&H	FDB	Lux. German	500	600	600	0	75
5	L&H	FDB	Lux. French	500	600	600	10	0
6	GEC	FDB	English	4000	3375	3141	2050	2374
7	GEC	SDB	English	120*20	0	0	0	0
8	BT	FDB	Welsh	2000	1250	1241	1000	944
9	BT	MDB	English	1000*1	1500	1444	1500	1406
10	DMI	FDB	Finnish	4000	1150	1147	1150	1106
11	DMI	FDB	Finnish Swedish	1000	100	136	100	99
12	MATRA	FDB	French	5000	1000	982	700	782
13	MATRA	SDB	French	120*20	0	0	0	0
14	PHILIPS	MDB	Dutch	250*4	800	893	450	462
15	IDIAP	FDB	Swiss French	2000	3000	3000	3000	3000
16	IDIAP	FDB	Swiss German	1000	1000	1000	1000	1000
17	IDIAP	SDB	Swiss French	20*50	1000	1000	1000	1000
18	SIEMENS	FDB	German	4000	3500	3580	3300	2903
19	SIEMENS	FDB	Slovenian	1000	1399	1399	1000	1000
20	KNOW & UPATRAS	FDB	Greek	5000	2569	2716	1796	1520
21	CSELT	FDB	Italian	3000	3300	3100	3000	3000
22	CSELT	MDB	Italian	250*4	900	0	800	0
23	PT	FDB	Portuguese	4000	3000	3072	2150	2280
24	UPC	FDB	Spanish	4000	3700	3700	3100	3100
25	KTH	FDB	Swedish	5000	1800	1557	1100	946
26	KTH	MDB	Swedish	1000*1	10	10	10	10
27	TELENOR	FDB	Norwegian	1000	1016	1016	1016	1016
28	VOCALIS	MDB	German	1000*1	200	335	50	20
Total					42369	41145	32622	31503

FDB = fixed telephone network; MDB = mobile telephone network; SDB = speaker verification

2.4 Validation

Eight of eleven partial speech databases and two complete databases were submitted for validation. Seven of the submitted databases were validated, six with positive results.

3 Promotion and dissemination of results

Six major actions concerning Promotion/Awareness were carried out either by demonstrating teleservices based on SpeechDat databases or by presenting the SpeechDat databases themselves:

- ⊙ CeBIT 97, 13-19 March 1997, Hannover; Demonstration by PHILIPS
- ⊙ ICASSP 97, 21-24 April 1997, Munich; Demonstrations by CSELT, IDIAP, L&H, UMUNICH; Poster presentation by SIEMENS
- ⊙ VOICE Germany 97, 17-19 June 1997, Cologne; Demonstrations by L&H
- ⊙ EUROSPEECH 97, 22-25 September 1997, Rhodes; Demonstrations by CSELT
- ⊙ VOICE Europe 97, 7-9 October 1997, London; Demonstrations by PHILIPS and L&H
- ⊙ *Sprache ohne Grenzen*, 4.-5. Nov. 1997, München. Demonstration by UMUNICH

All these demonstrations were based on speech databases created in SpeechDat(M) and SpeechDat(II).

The SpeechDat WWW site (<http://speechdat.phonetik.uni-muenchen.de>) has been maintained and constantly enlarged. It contains all interesting project related information both for the members of the Consortium and for the outside world.

Concrete dissemination of results were also carried out: First validated and accepted small SpeechDat(II) databases (FDB1000) were offered to ELRA for distribution.

4 Into 98

The major steps in 1998 concerning the creation of the speech databases will be:

- ⊙ Completing all recordings of all databases
- ⊙ Completing all annotations of all databases
- ⊙ Validating the remaining partial databases
- ⊙ Validating the complete databases
- ⊙ Eventually correcting and re-validating some databases
- ⊙ Offering the databases to ELRA for distribution

- ⊙ Presenting the Project at the First International Conference on Language Resources and Evaluation (LREC), Granada, May 28-30 1998

5 Reports

Following Technical Reports of the project are currently publicly available at the official SpeechDat WEB site: <http://speechdat.phonetik.uni-muenchen.de>

ty	Title
3	Public annual report
	Public annual report
1	Definition of corpus, scripts and standards for Fixed Networks
2& SD1.2.2	Specification of speech data collection over Mobile Telephone Networks
3	Definition of corpus, scripts and standards for speaker verification
1	Environmental and speaker specific coverage for Fixed Networks
3	Environmental and speaker specific coverage for speaker verification
0+	The SpeechDat(M) databases validation: results and recommendations
1	Specification of speech database interchange format
2	Specification of orthographic transcription and lexicon conventions
3	Validation criteria for databases
	Installation of the recording device and documentation
	Validation of the recording platforms (including Report)
1	Recommendations for / Specification of the annotation tools
2	Report on developed tools and SW distribution of annotation interfaces to partners
1	Concertation and dissemination plan
3	Report on contracts with ELRA
1	Demonstration plan