TRACING OF THE COMMON BASE CONCEPTS

Deliverable D.4.2, WP4, BalkaNet, IST-2000-29388

BalkaNet

Identification Number	IST-2000-29388
Type	Report-Document
Title	Tracing Of The Common Base Concepts
Status	Final
Deliverable	D.4.2
WP contributing to the deliverable	WP4
Tasks	T.4.3
Period covered	December 2002-January 2003
Date	February 2003
Version	1
Status	Confidential
Number of pages	
WP/Task Responsible	UAIC
Other Contributors	DBLAB, CTI, RACAI, DCMB, SABANCI, FIMU, PU, UOA

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Keywords	common base concepts, ILI records
Actual Distribution	Project Consortium, Project Officer, EC

Abstract	This report presents the tracing of Common Base Concepts by describing the method used for choosing them from the local selections of each monolingual wordnet of the participating Balkan languages (Bulgarian, Greek, Romanian, Serbian, and Turkish). The starting point for defining the Balkanet Base Concepts was the first set of 1310 Base Concepts selected in EuroWordNet, that we called BC1. Afterwards, each participant selected its own set of Base Concepts, other than those already existing in BC1, based mainly on monolingual criteria. Once each group has selected their local set of Base Concepts and linked them to the EuroWordNet ILI records a computation of their intersections has taken place and the common set of Base Concepts was decided to be used by all partners. The methodology used for selecting the local base concepts was presented in deliverable D.4.1. The main objective was to achieve a reasonable and Common set of Base Concepts so as to make the cores of the individual WordNets compatible. Partners who already had a wordnet (as, for instance, the Czech team) proposed the method to be used in selecting this Common set of Base Concepts, the Czech method was finally adopted.
Status of abstract	Complete
Send on	February 2003

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EXECUTIVE SUMMARY

WordNet (Fellbaum 1998, Miller et al. 1990), a lexical database with semantic relations between English words, was developed in the Cognitive Science Laboratory at the University of Princeton. Its success as a lexical resource in several computational linguistic tasks has led to the production of similar semantic lexical databases for many other languages. Following the initial design of WordNet, the EuroWordNet project (Vossen, 1998) resulted in a multilingual lexical database with wordnets for eight European languages (Czech, Dutch, English, Estonian, French, German, Italian and Spanish).

The goal of Balkanet is to develop a multilingual lexical database with semantic networks of the following languages: (Bulgarian, Czech, Greek, Romanian, Serbian and Turkish) along the general guidelines of EuroWordNet. For that purpose, each monolingual wordnet which is being developed independently will be incorporated in the BalkaNet database which in turn will be linked to EuroWordNet thus resulting in a global semantic database.

The overall design of the Balkanet database implies the relatively independent development of individual language-specific wordnets while guaranteeing a minimal level of compatibility. To enlarge the compatibility of the five wordnets, the selection of a common set of so-called Base Concepts was the first step to take for all the sites. Base Concepts are meanings that play a major role in the language. The classification method of the Base Concepts is based on a Top Ontology.

The starting point for defining the Balkanet Common Base Concepts was a set of 1310 Base Concepts selected in EuroWordNet. This set was subsequently called by the Balkanet consortium BC1. Given the BC1 set, each site has already created the corresponding synsets and aligned them with the corresponding ILI numbers. Afterwards, the methodology agreed upon was to extend the BC1 set with a set, so-called Base Concepts 2 (BC2), also common to all languages. BC2 was the result of the comparison of the concepts chosen by each of the 5 languages involved as being the translation in English of those playing an important role in each language. The importance of a concept was measured using different monolingual criteria and its relevance in the other languages. A concept is important if it is widely used, either directly or as a reference for other widely used concepts. Importance is thus reflected in the ability of a concept to function as an anchor to attach other concepts.

In this respect, each team has performed a recording of already available resources that are useful to the classification and, finally, to the selection of the most important concepts in their language.

This deliverable describes the selection method of the Common Base Concepts from the local definitions of what was considered to be Base Concepts in Bulgarian, Greek, Romanian, Serbian, and Turkish wordnets.

The local selections for the common Base Concepts, as well as the methodology used for defining the, were subject of the deliverable D.4.1.

1. INTRODUCTION

The work reported in this deliverable is the output of the third task (T.4.3) of work-package WP4 which deals with the selection of the Common Base Concepts for the construction of the monolingual wordnets for each of the languages participating in the Balkanet project (Bulgarian, Greek, Romanian, Serbian and Turkish) and, respectively, with the mapping with the ILI records.

The starting point for defining the common set of Balkanet Base Concepts was the first set of 1310 Base Concepts selected in EuroWordNet, called BC1. Subsequently, this common set had to be extended to an enlarged set (the consortium recommendation was to achieve 5000 concepts) of common concepts (also called Base Concepts in Balkanet) - that the consortium agreed to call the BC2 set. During the first two tasks of workpackage WP4, each partner had to develop his own set of the most important local concepts taking into account the peculiarities of each language and to align this set to the corresponding ILI records in order to establish cross-language lexical equivalencies.

The members of the consortium have developed sets of local concepts, in the order of their importance in the language, selected mainly after monolingual criteria. The Czech team, who had already a wordnet developed for their language, shared their knowledge and expertise with the other members of the consortium and, following an analysis of the most important local concepts for every Balkanet language, they compared these results and decided which were the common concepts to be included into the BC2 set.

This report contains the method used by the Czech team in deciding which local Base Concepts would be included in the common set of Base Concepts.

The Base Concepts which were common for at least two different languages have formed the Common Base Concepts of the Balkanet project. In cases where there was not an exact equivalence in a local language for a Common Base Concept, the closest concept in the local selection has been included.

The report is structured into 4 sections, as follows: section 1 is the present introduction; section 2 describes the method used for selecting the 3690 concepts that we called BC2 and representing the Common set of Base Concepts, section 3 is an analysis of the overlaps computed between the local sets of Base Concepts and the final set of Common Base Concepts. Finally, section 4 contains conclusions and guidelines or future work.

As appendixes to deliverable D.4.1 are the local Base Concepts common to at least four languages and the list of ILI-records representing the final set of Common Base Concepts. The same data can be found on the project's information server:
http://dblab.upatras.gr under Project Actual Work/new synset glosses (from 1.7->1.5)

2. THE SELECTION METHOD OF THE BALKANET COMMON SET OF BASE CONCEPTS

The tracing of the Common Base Concepts on ILI records has been realised after the method proposed by the Czech team on June 2002.

During the first two tasks of workpackage WP4, each partner had to develop his own set of the most important local concepts taking into account the peculiarities of each language and to align this set to the corresponding ILI records in order to establish cross-language lexical equivalencies. The local selections have been mapped to the WordNet1.5 synsets and were distributed as follows:

	Nouns	Verbs
BG	463	41
GR	285	137
RO	3298	702
SR	492	75
TU	943	466

Table 1: Local selected ILI's

All concepts occurring in two local proposed sets have been selected and added to the Common set of Base Concepts.

	Nouns				Verbs			
	GR	RO	SR	TU	GR	RO	SR	TU
BG	10	154	26	79	4	3	2	9
GR		85	25	35		33	2	14
RO			226	467			32	118
SR				184				34
Union	10	225	231	534	4	34	33	150
	Total union			762	Total union			193

Table 2: Intersection pairs for Bulgarian, Greek, Romanian, Serbian and Turkish

The union of the intersection pairs is a set of 955 synsets (762 nouns and 193 verbs), which is comparable with the EWN1 union of intersection pairs: 871 synsets (694 nouns and 177 verbs) and with the EWN2 union of intersection pairs: 877 synsets (619 nouns and 258 verbs).

Using these intersection pairs between languages, the Czech team proposed that the BC2 set should contain: all 243 direct or indirect hyperonyms of concepts in BC1 that are not in BC1, all 18 concepts suggested by any four teams together, all 96 concepts suggested by any three teams together, all 617 concepts suggested by any two teams together, 2269 of other concepts suggested by only one team. This whole set consists of all concepts that are on the 1st, 2nd, 3rd, 4th or the 5th level of hypero-hyponymical tree plus some concepts that are on the 6th level of this tree, and all 447

direct or indirect hyperonyms of concepts included in previous groups that are not in BC1, i.e. 3690 synsets together.

As such, BC2 contains 2351 noun concepts, 1286 verb concepts and 53 adjective concepts. 5 adverb concepts, that occur in some partners' suggestions were omitted (their ILI numbers are: 00009298-b, 00015369-b, 00078595-b, 00089836-b and 00203907-b).

Because BC1 and BC2 are disjunct, there are 5000 Base Concepts (BC) now (the sum of 1310 BC1 and 3690 BC2). Moreover, all BC meet the condition, that if a concept is a BC then also all of its hyperonyms are BCs. It means that, following this convention, the BC set should reasonably cover the "top" of hypero-hyponymical tree.

The data justifying these statistics can be found on the project's information server: http://dblab.upatras.gr under Project Actual Work/new synset glosses (from 1.7->1.5)

3. ANALYSIS OF THE OVERLAPS BETWEEN THE PROPOSED SETS OF LOCAL BASE CONCEPTS AND THE COMMON BASE CONCEPTS

Total number of ILIs resulted from the mapping of the local Base Concepts for each team of the participating Balkanet languages:

- Bulgarian 505
- Greek 478
- Romanian 4000
- Serbian 567
- Turkish 1409

It should be mentioned that in some proposed lists there were ILIs which appeared twice and some of them even three times. These repetitions have been eliminated from each partner's proposal and that may be the reason why some of the present numbers do not correspond to each partner's declaration.

NOUNS	Local BC's	Intersection with final BC2	% of local BC's in BC2
BG	463	259	55,94%
GR	285	182	63,86%
RO	3298	1419	43,03%
SR	492	417	84,76%
TU	943	787	83,46%

Table 3: Overlaps for nouns between the local selections and BC2

VERBS	Local BC's	Intersection with final BC2	% of local BC's in BC2
BG	41	23	56,10%
GR	137	129	94,16%
RO	702	666	94,87%
SR	75	75	100,00%
TU	466	466	100,00%

Table 4: Overlaps for verbs between the local selections and BC2

The first column of the last two tables represents the number of nouns, respectively verbs in the local Base Concepts, the second column the number of nouns, respectively verbs in the intersection between the local proposals and the final set of BC2 and the third is the percentage representing how many of the proposed concepts have been chosen to be part of the final set of Common Base Concepts. For the Turkish team, by example, the last table says that from a proposal of 466 verbs, all of them have been chosen to be part of BC2 (that means 100%).

4. CONCLUSIONS AND FUTURE WORK

In this deliverable we have presented the selection method of the Common Base Concepts, selection done after each of the participating teams (Bulgarian, Greek, Romanian, Serbian, Turkish) proposed a set of local Base Concepts, excepting Czech which has already developed a wordnet. The selection method of the Common Base Concepts was proposed by the Czech team and the resulted set of ILI records is currently available on the information server and also as annex to this document.

In the content of this work-package, each participant, following a methodology applicable to the construction of the respective monolingual WordNet, has selected a list of concepts which were considered to be most important in his language. Studying the overlaps between the five sets of selected Base Concepts and as we have expected, the languages involved in this project are different with respect of what concepts are considered to be basic or important. As a consequence, the extraction of the Common Base Concepts was not trivial. This extraction has been done by the Czech team and its result was the BC2 set, which consists of 3690 ILI records.

As a part of future work each partner has to develop his own set of synsets corresponding to the selected Common Base Concepts.

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ANNEX 1

Local Base Concepts common to at least four languages

Base Concepts selected by all 5 languages

```
WordNet1.5 Synset: {strength 1}
     Part-of-Speech: n
     WordNet1.5 File off-set: 3504545
     WordNet1.5 Gloss: the property of being physically or mentally
     strong; "fatigue sapped his strength"
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Base Concepts selected by any 4 languages

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WordNet1.5 Synset: {beginning 1, commencement 1, start 1}
     Part-of-Speech: n
     WordNet1.5 File off-set: 132916
     WordNet1.5 Gloss: the act of starting something; "he was
     responsible for the beginning of negotiations"
WordNet1.5 Synset: {do_by 1, handle 7, treat 7, treat_with 1}
     Part-of-Speech: v
     WordNet1.5 File off-set: 1423425
     WordNet1.5 Gloss: interact (with someone) in a certain way; "Do
     right by her"; "Treat him with caution, please"
WordNet1.5 Synset: {fix 3, fixing 1, mending 1, repair 1, reparation
     2}
     Part-of-Speech: n
     WordNet1.5 File off-set: 148798
     WordNet1.5 Gloss: the act of putting something in working order
     again
WordNet1.5 Synset: {apartment 1, flat 1}
     Part-of-Speech: n
     WordNet1.5 File off-set: 2067216
     WordNet1.5 Gloss: a suite of rooms usually on one floor of an
     apartment house
WordNet1.5 Synset: {computer 1, data_processor 1, electronic_computer
     1, information_processing_system 1}
     Part-of-Speech: n
     WordNet1.5 File off-set: 2336139
     WordNet1.5 Gloss: a machine for performing calculations
     automatically
WordNet1.5 Synset: {roof 1}
     Part-of-Speech: n
     WordNet1.5 File off-set: 3007570
     WordNet1.5 Gloss: a structure that covers or forms the top of a
     building
WordNet1.5 Synset: {grounds 1, yard 3}
     Part-of-Speech: n
     WordNet1.5 File off-set: 3280552
     WordNet1.5 Gloss: the land around a house or other building
WordNet1.5 Synset: {strength 1}
     Part-of-Speech: n
     WordNet1.5 File off-set: 3504545
     WordNet1.5 Gloss: the property of being physically or mentally
     strong; "fatigue sapped his strength"
WordNet1.5 Synset: {size 2}
     Part-of-Speech: n
     WordNet1.5 File off-set: 3542970
     WordNet1.5 Gloss: the magnitude of something
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WordNet1.5 Synset: {perspective 2, position 8, view 8}
      Part-of-Speech: n
      WordNet1.5 File off-set: 4120984
      WordNet1.5 Gloss: a way of regarding situations or topics etc.;
      "consider what follows from the positivist view"
WordNet1.5 Synset: {account 3, chronicle 1, history 3, story 3}
      Part-of-Speech: n
      WordNet1.5 File off-set: 4267395
      WordNet1.5 Gloss: a record or narrative description of past
      events: "a history of France"; "the story of exposure to lead"
WordNet1.5 Synset: {evidence 2}
      Part-of-Speech: n
      WordNet1.5 File off-set: 4342609
      WordNet1.5 Gloss: information that makes something evident
WordNet1.5 Synset: {case 12, instance 2}
      Part-of-Speech: n
      WordNet1.5 File off-set: 4704301
      WordNet1.5 Gloss: an occurrence of something; "it was a case of
      bad judgment"
WordNet1.5 Synset: {genesis 1, inception 1, origin 3, origination 2}
      Part-of-Speech: n
      WordNet1.5 File off-set: 4711277
      WordNet1.5 Gloss: an event that is a beginning; a first part or
      stage of subsequent events
WordNet1.5 Synset: {destiny 1, fate 1}
      Part-of-Speech: n
      WordNet1.5 File off-set: 4714117
      WordNet1.5 Gloss: an event that will happen in the future
WordNet1.5 Synset: {employment 2, exercise 4, usage 2, use 3,
      utilisation 1, utilization 1}
      Part-of-Speech: n
      WordNet1.5 File off-set: 523813
      WordNet1.5 Gloss: the act of using; "the steps were worn from
      years of use"
WordNet1.5 Synset: {speak_of 1, talk_about 1, talk_of 1}
      Part-of-Speech: v
      WordNet1.5 File off-set: 531074
      WordNet1.5 Gloss: "They spoke of many things"
WordNet1.5 Synset: {traffic 3}
      Part-of-Speech: n
      WordNet1.5 File off-set: 5347181
      WordNet1.5 Gloss: the aggregation of things (pedestrians or
      vehicles or messages) coming and going in a particular locality
      Group
WordNet1.5 Synset: {center 13, centre 4, eye 5, heart 9, middle 3}
      Part-of-Speech: n
      WordNet1.5 File off-set: 5389703
      WordNet1.5 Gloss: an area that is approximately central within
      some larger region; "it is in the center of town"; "they ran
      forward into the heart of the struggle"; "they were in the eye
      of the storm"
WordNet1.5 Synset: {commerce 1, commercialism 1, mercantilism 1}
      Part-of-Speech: n
      WordNet1.5 File off-set: 604640
      WordNet1.5 Gloss: activities having the objective of supplying
      commodities
WordNet1.5 Synset: {child 5, female_child 1, girl 2, little_girl 1}
      Part-of-Speech: n
      WordNet1.5 File off-set: 6085610
      WordNet1.5 Gloss: a young female person; "the baby was a girl";
      "the girls were just learning to ride a tricycle"

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WordNet1.5 Synset: {gentleman 1}
      Part-of-Speech: n
      WordNet1.5 File off-set: 6108762
      WordNet1.5 Gloss: a man of refinement
WordNet1.5 Synset: {attorney 1, lawyer 1}
      Part-of-Speech: n
      WordNet1.5 File off-set: 6172234
      WordNet1.5 Gloss: a professional person authorized to practice
      law; conducts lawsuits or gives legal advice
WordNet1.5 Synset: {military_officer 1, officer 1}
      Part-of-Speech: n
      WordNet1.5 File off-set: 6208325
      WordNet1.5 Gloss: any person in the armed services who holds a
      position of authority or command
WordNet1.5 Synset: {direction 2, management 1, managing 1}
      Part-of-Speech: n
      WordNet1.5 File off-set: 626963
      WordNet1.5 Gloss: the act of managing something; "he was given
      overall management of the program"; "is the direction of the
      economy a function of government?"
WordNet1.5 Synset: {married_woman 1, wife 1}
      Part-of-Speech: n
      WordNet1.5 File off-set: 6431241
      WordNet1.5 Gloss: a married woman; a man's partner in marriage
WordNet1.5 Synset: {environment 2}
      Part-of-Speech: n
      WordNet1.5 File off-set: 8527736
      WordNet1.5 Gloss: the totality of surrounding conditions
WordNet1.5 Synset: {freedom 1}
      Part-of-Speech: n
      WordNet1.5 File off-set: 8560710
      WordNet1.5 Gloss: the condition of being free; the power to act
      or speak or think without externally imposed restraints
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ANNEX 2

The ILI Records of the
Common Base Concepts

00002403-n	00033345-n	00062229-v	00108700-n	00141800-v	00174377-n
00005576-v	00033585-n	00063474-v	00109482-n	00142209-v	00175531-v
00006249-v	00033788-v	00064647-n	00109739-v	00142918-v	00176535-v
00006640-v	00033941-n	00065301-n	00111108-v	00143080-v	00177350-v
00006827-v	00034158-v	00066332-n	00111309-v	00143469-v	00178425-n
00007652-v	00035058-v	00067056-n	00112033-n	00144252-v	00179009-n
00007927-v	00036135-v	00068542-n	00112942-n	00144554-v	00180443-n
00008871-v	00036182-n	00069344-v	00113929-n	00144620-n	00181048-v
00008979-v	00036514-n	00070549-n	00114989-v	00145094-v	00181076-n
00009090-v	00038182-v	00071682-n	00115374-n	00145285-n	00182471-n
00009222-v	00038510-v	00074126-n	00115560-n	00145464-v	00182735-n
00009337-v	00038965-v	00077539-n	00116072-v	00146310-n	00183528-n
00012162-v	00039513-a	00079101-n	00116784-v	00146311-v	00184146-n
00012670-n	00039609-n	00079552-n	00117258-v	00146714-n	00184637-n
00012787-v	00039912-v	00079913-v	00117617-v	00146761-v	00185045-v
00014757-v	00040410-v	00080617-v	00117993-v	00148709-v	00185197-n
00016583-v	00040430-n	00081070-n	00118386-v	00148798-n	00185458-n
00017405-v	00040642-n	00081285-n	00119224-v	00149444-v	00185745-n
00017872-v	00041249-v	00081543-n	00120233-v	00149663-v	00185918-v
00019656-n	00041363-v	00081721-n	00121729-v	00150028-v	00187227-v
00021571-n	00041587-v	00082223-v	00122582-n	00151580-n	00187353-n
00021712-n	00041868-v	00083820-v	00122960-n	00152617-n	00187475-v
00021823-v	00045000-v	00084281-v	00123050-v	00153682-v	00187665-v
00022283-v	00046130-v	00085298-n	00123459-v	00154503-n	00187756-a
00022768-n	00046259-n	00088700-n	00125033-v	00154762-n	00188083-n
00023468-a	00046374-v	00089405-n	00125155-v	00155240-v	00188280-n
00023616-n	00048043-v	00089507-v	00125250-n	00156254-v	00188944-v
00023635-v	00048288-v	00092608-n	00127132-v	00157168-v	00189817-n
00023747-n	00049591-n	00092958-n	00127336-v	00158363-n	00190084-n
00024111-n	00049633-v	00093160-n	00127796-v	00159529-n	00190902-n
00024230-n	00050233-n	00094071-n	00128308-v	00159786-n	00191844-n
00024860-n	00050331-n	00094915-v	00129855-v	00160234-n	00192160-n
00025535-n	00050905-v	00095298-n	00130344-n	00161244-v	00192206-v
00026427-n	00052120-n	00095355-v	00130553-v	00161922-v	00192550-n
00026466-v	00052163-v	00095683-n	00130659-v	00163002-v	00192859-v
00026769-n	00052473-v	00096985-v	00130732-n	00164318-v	00193048-v
00028591-n	00052643-n	00097775-v	00131138-n	00164443-v	00193111-n
00029539-v	00052841-n	00098399-v	00131260-v	00164635-v	00193433-v
00029663-n	00053587-v	00101643-v	00132257-v	00164763-v	00195141-v
00029823-v	00055043-v	00101940-v	00132499-n	00164883-v	00197055-v
00029851-n	00055228-v	00101987-n	00132916-n	00165341-n	00200306-v
00030113-v	00055409-n	00102854-n	00134905-v	00165679-v	00200732-n
00030125-n	00056340-n	00103715-a	00135970-v	00167892-v	00201404-v
00030694-v	00058767-n	00103989-n	00136371-n	00168046-v	00201487-n
00032015-n	00059050-n	00106221-v	00138377-v	00169284-n	00205092-n
00032124-n	00059503-v	00106713-v	00139093-v	00171199-n	00205232-v
00032702-v	00061241-v	00106828-v	00140526-v	00173189-n	00206373-v
00033173-n	00061364-v	00107765-v	00141499-v	00173749-n	00206795-v

00206903-v	00243461-n	00286438-a	00353072-v	00396871-v	00437212-n
00207186-v	00246372-v	00287933-v	00353422-v	00398655-v	00438593-n
00209240-n	00247502-n	00288649-v	00355285-v	00399168-v	00439025-v
00209363-n	00247637-v	00288782-n	00355753-v	00399410-v	00439306-n
00209484-n	00247885-v	00292288-v	00356058-v	00399721-n	00440000-n
00210397-n	00247899-n	00292668-n	00356251-v	00401008-v	00440117-n
00211442-v	00248253-n	00292993-n	00356375-v	00403071-v	00441414-v
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