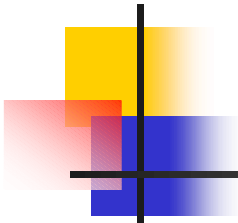


An experimental WebService for Iconclass

<http://www.iconclass.nl/texts/whatisic.htm>

Demonstration of the AIT-Soap-WebClient (Version v05/v06)

<http://www.digipark.at/webService/documentation/icc.html>



ICC-WebService v05/v06

Objectives:

- Access to the ICC-Vocabulary via SOAP/WSDL, loadable from:
http://193.80.249.126//webservice/wSDL-creator-dev/build/wSDL/iconclass_v06.wSDL
- Integration of the ICC-WS in application programs (eg collection management)
- Provision to a test environment using a SOAP-Test Client which is accessible at:
<http://www.digipark.at/webservice/documentation/icc.html>

SOAP Test Client

SOAP Test Client

iconclass v05.wsdl [\[Download\]](#) [\[Change\]](#)

Methods	Select a method from the left.
GetTreeNodes	
IndexLookup	
Login	
Logout	

Functions (methods):

- **Login:**
Get a session ticket
- **GetTreeNodes:**
Select an ICC-subtree
- **IndexLookup:**
Get a frequency list of ICC-keywords
- **Logout:**
Close a session

ICC-v05/v06: WSDL

```
<?xml version="1.0" encoding="utf-8"?>
<wsdl:definitions xmlns="http://schemas.xmlsoap.org/wsdl/"
  xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:tns="http://www.digipark.at/webService/thesaurus/icon"
  targetNamespace="http://www.digipark.at/webService/thesaurus/icon">
  <wsdl:types>
    <message name="GetTreeNodeRequest">
    <message name="GetTreeNodeResponse">
    <message name="IndexLookupRequest">
    <message name="IndexLookupResponse">
    <message name="LoginRequest">
    <message name="LoginResponse">
    <message name="LogoutRequest">
    <message name="LogoutResponse">
    <wsdl:portType name="icc_subjectPortType">
    <binding name="icc_subjectBinding" type="tns:icc_subjectPortType">
    <wsdl:service name="icc_subject">
  </wsdl:definitions>
```

ICC-v05/v06: WSDL-Types

```

<wsdl:types>
  <xsd:schema targetNamespace="http://www.digipark.at/webService/thesaurus/icon"
    xmlns:xsd="http://www.w3.org/2001/XMLSchema">
    <xsd:complexType name="IntArray">
    <xsd:complexType name="StringArray">
    <xsd:complexType name="GetTreeNodeReq_icc_ntType">
    <xsd:complexType name="GetTreeNodeReq_icc_ptType">
    <xsd:complexType name="GetTreeNodeResp_Type">
    <xsd:complexType name="GetTreeNodeResp__Node_TypeArray">
    <xsd:complexType name="GetTreeNodeResp__Node_Type">
    <xsd:complexType name="GetTreeNodeResp_icc_subjectType">
    <xsd:complexType name="GetTreeNodeResp_icc_ntTypeArray">
    <xsd:complexType name="GetTreeNodeResp_icc_ntType">
    <xsd:complexType name="GetTreeNodeResp_icc_ptTypeArray">
    <xsd:complexType name="GetTreeNodeResp_icc_rtTypeArray">
    <xsd:complexType name="GetTreeNodeResp_icc_ptType">
    <xsd:complexType name="GetTreeNodeResp_icc_rtType">
    <xsd:complexType name="WordStat">
    <xsd:complexType name="WordStatArray">
    <xsd:complexType name="IndexLookupRespType">
    <xsd:complexType name="LoginResponseType">
  </xsd:schema>
</wsdl:types>

```

Login Request

SOAP Test Client

iconclass v06.wsdl

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Methods

[GetTreeNodes](#)

[IndexLookup](#)

[Login](#)

[Logout](#)

Login

username (string) :

password (string) :

timeout (string) :

(Returns a LoginResponseType)

Test – username:
test01

Test – password:

Login Result

iconclass v06.wsdl [Download] [Change]															
Result	Result of Login														
SOAP Request (XML)	Called:														
SOAP Response (XML)	Login(username = "test01", password = ##### timeout = "")														
Call statistics	Returned:														
Methods	<table> <tr> <td>message</td><td>'test01' sucessfully logged in.</td></tr> <tr> <td>session_ticket</td><td>3184a672d7c735297077710b0fe89decce99776d</td></tr> <tr> <td>fullname</td><td>The test01</td></tr> <tr> <td>email</td><td></td></tr> <tr> <td>additional</td><td>a test01</td></tr> <tr> <td>e_points</td><td>1000000.00</td></tr> <tr> <td>e_points_left</td><td>999923.84</td></tr> </table>	message	'test01' sucessfully logged in.	session_ticket	3184a672d7c735297077710b0fe89decce99776d	fullname	The test01	email		additional	a test01	e_points	1000000.00	e_points_left	999923.84
message	'test01' sucessfully logged in.														
session_ticket	3184a672d7c735297077710b0fe89decce99776d														
fullname	The test01														
email															
additional	a test01														
e_points	1000000.00														
e_points_left	999923.84														
GetTreeNodes															
IndexLookup															
Login															
Logout															

Login: SOAP Response (XML)

```
<xsd:complexType name="LoginResponseType">
  <xsd:all>
    <xsd:element name="message" type="xsd:string"/>
    <xsd:element name="session_ticket" type="xsd:string" minOccurs="0" maxOccurs="1"/>
  </xsd:all>
</xsd:complexType>
</xsd:schema>
</wsdl:types>
<message name="GetTreeNodesRequest">
</message>
<message name="GetTreeNodesResponse">
</message>
<message name="IndexLookupRequest">
</message>
<message name="IndexLookupResponse">
</message>
<message name="LoginRequest">
  <part name="username" type="xsd:string"/>
  <part name="password" type="xsd:string"/>
  <part name="timeout" type="xsd:string"/>
</message>
<message name="LoginResponse">
  <part name="LoginResponseResult" type="tns:LoginResponseType"/>
</message>
<message name="LogoutRequest">
  <part name="session_ticket" type="xsd:string"/>
</message>
<message name="LogoutResponse">
  <part name="LogoutResponseResult" type="tns:LoginResponseType"/>
</message>
```


GetTreeNodes Request

(Terminology: ANSI/NISO Z39.19 – 2005)

SOAP Test Client

iconclass v05.wsdl [Download] [Change]

Result

SOAP Request (XML)

SOAP Response (XML)

Call statistics

Methods

GetTreeNodes

IndexLookup

Login

Logout

GetTreeNodes

session_ticket (string): 070b8e548b8716d359a1

SCOPE (string): kunst*

TRM (string):

language (string): de

BT (string):

GS_LEVEL (string):

max_subtree_depth (int): 3

max_node_count (int): 10

Call GetTreeNodes

(Returns a GetTreeNodes_Resp_Type)

(node)**title** and **keyword**

ICC Notation

Broader Term
(ICC-Notation of the parent)

Generic Structure
(Absolute Tree-Level)

#levels for requested sub tree

GetTreeNodes Request (XML)

SOAP Test Client

iconclass v05.wsdl [\[Download\]](#) [\[Change\]](#)

Result SOAP Request (XML) SOAP Response (XML) Call statistics Methods GetTreeNodes IndexLookup Login Logout	SOAP Request <pre><SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ns1="http://www.digipark.at/webservice/thesaurus/icon" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/" SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/"> <SOAP-ENV:Body> <ns1:GetTreeNodes> <session_ticket xsi:type="xsd:string"> 070b8e548b8716d359a0892573bd204205b78ec0</session_ticket> <SCOPE xsi:type="xsd:string"> kunst*</SCOPE> <TRM xsi:type="xsd:string"> </TRM> <language xsi:type="xsd:string"> de</language> <BT xsi:type="xsd:string"> </BT> <GS_LEVEL xsi:type="xsd:string"> </GS_LEVEL> <max_subtree_depth xsi:type="xsd:int"> 3</max_subtree_depth> <max_node_count xsi:type="xsd:int"> 10</max_node_count> </ns1:GetTreeNodes> </SOAP-ENV:Body> </SOAP-ENV:Envelope></pre>
--	--

GetTreeNodees Result

Result of GetTreeNodees

Called:

```
GetTreeNodees( session_ticket = "070b8e548b8716d359a0892573bd204205b78ec0", SCOPE = "kunst*", TRM = "", language = "de", ]
```

Returned:

0: abstrakte, ungegenständliche Kunst

11 I 62 (ADAM) 11: Adam als Stifter der Künste

41 A 67 2: die Kunst des Bäumeschneidens (Sträucher und Bäume werden ornamentalisiert)

41 C 10: Gastronomie; die Kunst des Essens und Trinkens

42 E 38: Zeichen, Symbole und Motive in der Grabkunst

43 C 74 3: Kind und Kunst

43 C 74 31: Kinder musizieren, produzieren Katz

43 C 74 31 1: auf Töpfe und Pfannen trommeln

43 C 74 31 2: auf einer selbstgebastelten Flöte

43 C 74 31 3: Blase mit Erbsen (Kinderspiele)

48: Kunst

42 E 38: Zeichen, Symbole und Motive in der Grabkunst

TRM : 42 E 38
BT : 42 E 3
NT :
RT :

SCOPE/keyword : art,funerary art,sign,art,art
funéraire,signe,Kunst,Begraebniskunst,Zeichen

SCOPE/text : Zeichen, Symbole und Motive in der Grabkunst

GS LEVEL : 6

GS : /Gesellschaft, Zivilisation, Kultur/Familie,
Abstammung/Begräbnisriten/Grab, Grabstätte, andere

nodes (11)	TRM	BT	NT	RT	keyword (9)
0	-1	{ }	{ 22	C 22	
			C 4 22		

(node)title and
keyword = „kunst*“

GetTreeNodes Result (XML)

SOAP Response

```
<GS_LEVEL xsi:type="xsd:int">2</GS_LEVEL>
<GS xsi:type="xsd:string">/abstrakte, ungegenständliche Kunst</GS>
<level xsi:type="xsd:int">0</level>
</item>
<item xsi:type="ns1:GetTreeNodes_Resp_Node_Type">
<TRM xsi:type="xsd:string">11 I 62 (ADAM) 11</TRM>
<BT xsi:type="xsd:string">11 I 62 (ADAM) 1</BT>
<NT SOAP-ENC:arrayType="xsd:string[0]" xsi:type="ns1:StringArray"/>
<RT SOAP-ENC:arrayType="xsd:string[0]" xsi:type="ns1:StringArray"/>
<SCOPE xsi:type="ns1:GetTreeNodes_Resp_icc_subjectType">
<keyword SOAP-ENC:arrayType="xsd:string[6]" xsi:type="ns1:StringArray">
<item xsi:type="xsd:string">art</item>
<item xsi:type="xsd:string">founding</item>
<item xsi:type="xsd:string">art</item>
<item xsi:type="xsd:string">fonder</item>
<item xsi:type="xsd:string">Kunst</item>
<item xsi:type="xsd:string">gruenden</item>
</keyword>
<text xsi:type="xsd:string">Adam als Stifter der Künste</text>
</SCOPE>
<GS_LEVEL xsi:type="xsd:int">10</GS_LEVEL>
<GS xsi:type="xsd:string">/Religion und Magie/christliche Religion/Propheten, Sibyllen,
Evangelisten, Kirchenlehrer; Personen aus der Bibel (nicht im biblischen Kontext)/Personen aus dem
Alten Testament (weder in biblischen Kontexten noch in legendarischen-historischen Zusammenhängen,
wie sie in Abteilung 71 enthalten sind)/männliche Personen aus dem Alten Testament (nicht im
biblischen Kontext)/männliche Personen aus dem alten Testament (mit NAMEN) (nicht im biblischen
Kontext)/Adam (nicht im biblischen Kontext)/Adam als Gründer, Initiator/Adam als Stifter der
Künste</GS>
<level xsi:type="xsd:int">0</level>
</item>
<item xsi:type="ns1:GetTreeNodes_Resp_Node_Type">
<TRM xsi:type="xsd:string">41 A 67 2</TRM>
<BT xsi:type="xsd:string">41 A 67</BT>
<NT SOAP-ENC:arrayType="xsd:string[0]" xsi:type="ns1:StringArray"/>
```


GetTreeNodes: call statistics

SOAP Test Client

iconclass_v06.wsdl [\[Download\]](#) [\[Change\]](#)

[Result](#)

[SOAP Request \(XML\)](#)

[SOAP Response \(XML\)](#)

[Call statistics](#)

Methods

[GetTreeNodes](#)

[IndexLookup](#)

[Login](#)

[Logout](#)

Call statistics

1. Creating SOAP Message on Server:	1.685 sec
2. Encoding/Decoding/Transmitting SOAP Message:	0.068 sec
3. Overall Time for SOAP Call (1. + 2.):	1.753 sec
4. Formating SOAP Response as HTML:	0.060 sec
4a. Time for Formating XML Request/Response:	0.003 sec
5. Page built time (on server) (3. + 4.):	1.813 sec
6. Transmitting HTML over network:	+ <i>unknown</i>
7. Page render time (in browser):	+ 0.32 sec
Size of Soap Request	895 bytes
Size of Soap Response	14473 bytes
Size of (uncompressed) HTML page	71167 bytes
Size of HTML page (gzipped)	10127 bytes

GetTreeNodees Request:

select subtrees by ICC-Notation, (max. 10 nodes)

SOAP Test Client

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[Result](#)

[SOAP Request \(XML\)](#)

[SOAP Response \(XML\)](#)

[Call statistics](#)

Methods

[GetTreeNodees](#)

[IndexLookup](#)

[Login](#)

[Logout](#)

GetTreeNodees

session_ticket (string): 52a667dd7616540534a

SCOPE (string):

TRM (string): 11 | 62 (AD*

language (string): de

BT (string):

GS_LEVEL (string):

max_subtree_depth (int): 3

max_node_count (int): 10

[Call GetTreeNodees](#)

(Returns a GetTreeNodees_Resp_Type)

Search Term,
truncated
(Notation)

GetTreeNodes Result

Result of GetTreeNodes

Called:

GetTreeNodes(session_ticket = "070b8e548b8716d359a0892573bd204205b78ec0", SCOPE = "", TRM = "11 I 62 (AD*)", language = "de", BT = "", GS_LEVEL = "", max_subtree_depth = "3", max_node_count = "10")

Returned:

- 11 I 62 (AD*) + de
 - 11 I 62 (ADAM & EVE): Adam und Eva (nicht im biblischen Kontext)
 - 11 I 62 (ADAM): Adam (nicht im biblischen Kontext)
 - 11 I 62 (ADAM) 1: Adam als Gründer, Initiator
 - 11 I 62 (ADAM) 11: Adam als Stifter der Künste
 - 11 I 62 (ADAM) 12: Adam als Stifter der Ge...

Search Term
„11 I 62(AD*“

nodes (5)	TRM	BT	NT	RT	
	11 I 62 (ADAM & EVE)	11 I 62 (...)	{ }	{ 71 A 3 71 A 9 }	keyword (6) text

11 I 62 (ADAM) 11: Adam als Stifter der Künste X

TRM: 11 I 62 (ADAM) 11

BT: 11 I 62 (ADAM) 1

NT:

RT:

SCOPE/keyword :art,founding,art,fonder,Kunst,gruenden

SCOPE/text: Adam als Stifter der Künste

GS LEVEL: 10

GS: /Religion und Magie/christliche Religion/Propheten, Sibyllen, Evangelisten, Kirchenlehrer; Personen aus der Bibel (nicht im biblischen Kontext)/Personen aus dem Alten Testament

GetTreeNodes: call statistics

SOAP Test Client

iconclass v06.wsdl [\[Download\]](#) [\[Change\]](#)

[Result](#)

[SOAP Request \(XML\)](#)

[SOAP Response \(XML\)](#)

[Call statistics](#)

Methods

[GetTreeNodes](#)

[IndexLookup](#)

[Login](#)

[Logout](#)

Call statistics

1. Creating SOAP Message on Server:	0.140 sec
2. Encoding/Decoding/Transmitting SOAP Message:	0.053 sec
3. Overall Time for SOAP Call (1. + 2.):	0.193 sec
4. Formating SOAP Response as HTML:	0.055 sec
4a. Time for Formating XML Request/Response:	0.003 sec
5. Page built time (on server) (3. + 4.):	0.248 sec
6. Transmitting HTML over network:	+ <i>unknown</i>
7. Page render time (in browser):	+ 0.28 sec
Size of Soap Request	901 bytes
Size of Soap Response	14934 bytes
Size of (uncompressed) HTML page	76678 bytes
Size of HTML page (gzipped)	8327 bytes

IndexLookup Request

iconclass v05.wsdl
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[Result](#)

[SOAP Request \(XML\)](#)

[SOAP Response \(XML\)](#)

[Call statistics](#)

Methods

[GetTreeNodes](#)

[IndexLookup](#)

[Login](#)

[Logout](#)

IndexLookup

session_ticket (string) : 070b8e548b8716d359a1

term (string) : kunst*

language (string) : de

max_term_count (int) : 10

(Returns a UNKNOWN)

Search Term
„kunst*“

IndexLookup Request (XML)

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[Result](#)
[SOAP Request \(XML\)](#)
[SOAP Response \(XML\)](#)
[Call statistics](#)

Methods
[GetTreeNodes](#)
[IndexLookup](#)
[Login](#)
[Logout](#)

SOAP Request

```

<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:ns1="http://www.digipark.at/webService/thesaurus/icon"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
  <SOAP-ENV:Body>
    <ns1:IndexLookup>
      <session_ticket xsi:type="xsd:string">
        070b8e548b8716d359a0892573bd204205b78ec0</session_ticket>
      <term xsi:type="xsd:string"> kunst*</term>
      <lanuage xsi:type="xsd:string"> de</lanuage>
      <max_term_count xsi:type="xsd:int"> 10</max_term_count>
    </ns1:IndexLookup>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>

```


IndexLookup Result

Result of IndexLookup

Called:

```
IndexLookup( session_ticket = "070b8e548b8716d359a0892573bd204205b78ec0", term = "kunst*", language = "de",
max_term_count = "10" )
```

Returned:

query SELECT "nt_text" as "term", "language", COUNT("nt_text") as "frequency" FROM icc_nt WHERE (("language" = 'de')) AND (("nt_text" ILIKE 'kunst%')) GROUP BY "nt_text", "language" ORDER BY "nt_text", "language" LIMIT 10

wordlist (10)	term	language	frequency
	Kunst	de	11
	Kunst des Baeumeschneidens	de	1
	Kunstgeschichte	de	1
	Kunstgewerbe	de	3
	Kunsthändler	de	1
	Kunstlicht	de	1
	Kunstliebhaber	de	1
	Kunstsammler	de	1
	Kunstsammlung	de	1
	Kunstschrank	de	1

10 terms

Keywords
(„kunst*“)

Term
frequencies

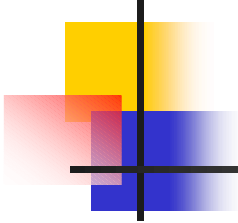
IndexLookup Result (XML)

SOAP Response

```
<?xml version="1.0" encoding="UTF-8"?>
<SOAP-ENV:Envelope xmlns:SOAP-ENV="http://schemas.xmlsoap.org/soap/envelope/"
  xmlns:ns1="http://www.digipark.at/webservice/thesaurus/icon"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xmlns:SOAP-ENC="http://schemas.xmlsoap.org/soap/encoding/"
  SOAP-ENV:encodingStyle="http://schemas.xmlsoap.org/soap/encoding/">
  <SOAP-ENV:Body>
    <ns1:IndexLookupResponse>
      <IndexLookupReturn xsi:type="SOAP-ENC:Struct">
        <query xsi:type="xsd:string">SELECT "nt_text" as "term", "language", COUNT("nt_text") as "frequency"
        FROM icc_nt WHERE ({"language" = 'de'}) AND ({"nt_text" ILIKE 'kunst%'}) GROUP BY "nt_text",
        "language" ORDER BY "nt_text", "language" LIMIT 10</query>
        <wordlist SOAP-ENC:arrayType="SOAP-ENC:Struct[10]" xsi:type="SOAP-ENC:Array">
          <item xsi:type="SOAP-ENC:Struct">
            <term xsi:type="xsd:string">Kunst</term>
            <language xsi:type="xsd:string">de</language>
            <frequency xsi:type="xsd:string">11</frequency>
          </item>
          <item xsi:type="SOAP-ENC:Struct">
            <term xsi:type="xsd:string">Kunst des Baeumeschneidens</term>
            <language xsi:type="xsd:string">de</language>
            <frequency xsi:type="xsd:string">1</frequency>
          </item>
          <item xsi:type="SOAP-ENC:Struct">
            <term xsi:type="xsd:string">Kunstgeschichte</term>
            <language xsi:type="xsd:string">de</language>
            <frequency xsi:type="xsd:string">1</frequency>
          </item>
          <item xsi:type="SOAP-ENC:Struct">
            <term xsi:type="xsd:string">Kunstgewerbe</term>
            <language xsi:type="xsd:string">de</language>
            <frequency xsi:type="xsd:string">3</frequency>
          </item>
        </wordlist>
      </IndexLookupReturn>
    </ns1:IndexLookupResponse>
  </SOAP-ENV:Body>
</SOAP-ENV:Envelope>
```

Log files

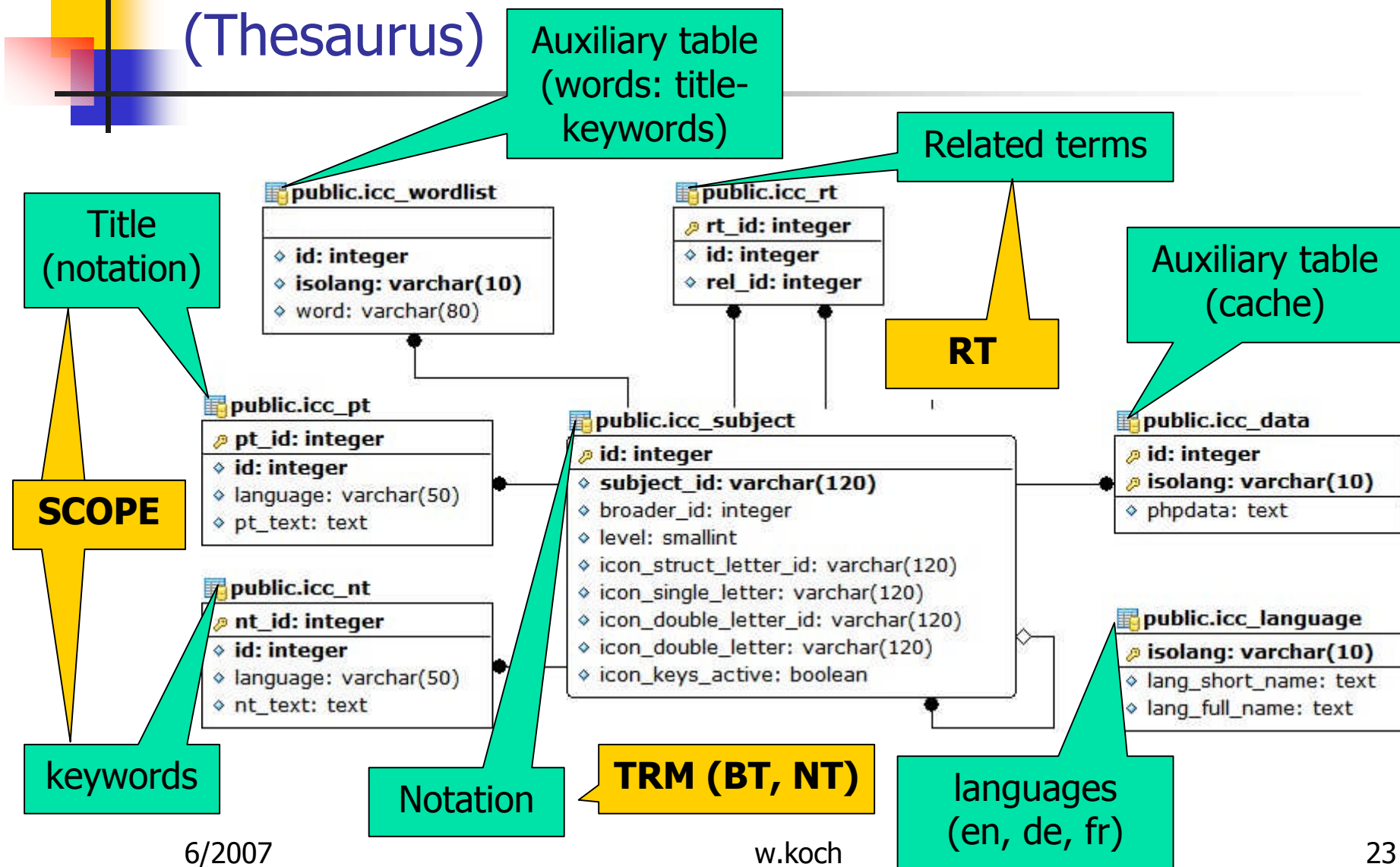
SOAP Test		Access of Webservices			
#SYSTEM	kochw		2007-03-07 07:48:45.934132	login_success	Session: 070b8e548b8716d359a0892573bd204205b78ec0
kochw		277ms	2007-03-07 07:49:21.575226	ICC:IndexLookup	SELECT "nt_text" as "term", "language", COUNT("nt_text") as "frequency" FROM icc_nt WHERE (("language" = 'de')) AND (("nt_text" = 'kunst')) GROUP BY "nt_text", "language" ORDER BY "nt_text", "language" LIMIT 10
kochw		2408ms	2007-03-07 07:49:42.677585	ICC:IndexLookup	SELECT "nt_text" as "term", "language", COUNT("nt_text") as "frequency" FROM icc_nt WHERE (("language" = 'de')) AND (("nt_text" ILIKE 'kunst%')) GROUP BY "nt_text", "language" ORDER BY "nt_text", "language" LIMIT 10
kochw		376ms	2007-03-07 07:52:10.516625	ICC:IndexLookup	SELECT "nt_text" as "term", "language", COUNT("nt_text") as "frequency" FROM icc_nt WHERE (("language" = 'de')) AND (("nt_text" ILIKE 'kunst%')) GROUP BY "nt_text", "language" ORDER BY "nt_text", "language" LIMIT 10
kochw		5163ms	2007-03-07 07:59:23.54617	ICC:GetTreeNodes	SELECT subj."id", "broader_id", subject_id, phpdata, "level" FROM "icc_subject" subj LEFT JOIN "icc_data" dat ON subj.id = dat.id AND dat."isolang" = 'de' WHERE subj."id" IN (SELECT id FROM "icc_wordlist" nt WHERE "isolang" = 'de' AND (("word" = 'kunst'))) LIMIT 10
kochw		223ms	2007-03-07 08:13:29.906929	ICC:GetTreeNodes	SELECT subj."id", "broader_id", subject_id, phpdata, "level" FROM "icc_subject" subj LEFT JOIN "icc_data" dat ON subj.id = dat.id AND dat."isolang" = 'de' WHERE (("subject_id" ILIKE '11 I 62')) LIMIT 10
kochw		95ms	2007-03-07 08:15:31.813998	ICC:GetTreeNodes	SELECT subj."id", "broader_id", subject_id, phpdata, "level" FROM "icc_subject" subj LEFT JOIN "icc_data" dat ON subj.id = dat.id AND dat."isolang" = 'de' WHERE (("subject_id" ILIKE '11 I 62')) LIMIT 10



Cost calculation

uname	acontext	costs
dodo	ICC:GetTreeNodes	461
dodo	ICC:IndexLookup	260
kochw	ICC:GetTreeNodes	174
kochw	ICC:IndexLookup	47

Generic data base structure (Thesaurus)



Generic data base structure

(Logfiles - Accounting)

