AUTOSCOUT24 COMMON WEBSERVICES

– Technical Documentation –

GENERAL INFORMATION

AutoScout24 Common Webservices

Samples

For any kind of usage sample, this document uses the freely available Java GUI Tool for testing SOAP Services, called SoapUI. The reference link is: www.soapui.org. All files provided in the samples are using the description language from SoapUI. To be able to use those samples, please make sure that the Webservice is available at the given location as well you are required to import the WSDL Code for the webservice, first. Such an WSDL Code for each webservice is contained within each section of a Webservice description.

Webservice Sections

Each Section of a Webservice describes its Classes, it's Entities as well as the Webservice's public methods. The difference between Classes and Entities is that both are class-based though only the former is directly used within either parameters or as return values in the public methods section, whereas entities are so called "sub-classes" that are used within the main classes mentioned before. Entities are never used directly within method calls though they help for a better structure within the Webservice's I/O behavior.

Member Listings

Within Member Listings, each member within square brackets like [param] are optional, members outside the square brackets are required for the proper working of the various method calls. Do also take care on the section after the member's listings as it usually states down which member you should and which you must fill to gather correct results even though those members might not always be marked as required.

Paging System

Most of the Webservices that do return collections of data do have a so-called paging systems. To avoid overhead and to create the smallest SOAP XML return data as possible, you can not only specify the number of the approximate results but also how many return items you want to receive per page. To be able to query for more result items, you do simply increase the Current Page number and make an submit to the webservice again.

Session System

Most of the webservices do have a sessioning system, either to keep track of your credentials or to keep some data during their lifecycle for example for efficient caching. It is important that on the first time you call the Webservice, you leave the Session Member (Most of the time called "session_id") empty. By doing so, the Webservice will create and return a new, unique session for you. From this point on (i.e. after your first successful query to the Webservice), you should always keep the returned Session-ID and put it again on each further request you do to the Webservice.

Common Pitfalls

This section lists several how-to issues that might occur during using the services.

Lookup-Values returning the wrong value

The AS24 Webservices are using char types internally to match lookup data values. Because .NET is not capable of correctly serializing and deserializing the char type, it does accidently return integer values. When trying to access those values within the .NET Webservice Importer, you will retrieve a System.Xml.XmlNode[] object instead that you have to deserialize by yourself. To avoid this issue, it is advised to always use the following listed C# function "ConvertLookupKey" when trying to retrieve any kind of keys within lookup data:

```csharp
static public string ConvertLookupKey(object lookupKey)
{
    string result = null;

    if (lookupKey is System.Xml.XmlNode[])
    {
        // What we are doing here is quite simple.
        // As written on http://msdn.microsoft.com/en-us/library/3003scdt.aspx
        // ASP.NET Webservices do not support deserialization of all types.
        // If .NET cannot deserialize the input value, then it gives
        // us back a list of XML Nodes which we can use to discover our
        // custom types by ourself. This is exactly what we're doing here.
        System.Xml.XmlNode[] nodes = (System.Xml.XmlNode[])lookupKey;
        if (nodes.Length >= 3 &&
            nodes[0].NodeType == System.Xml.XmlNodeType.Attribute &&
            nodes[1].NodeType == System.Xml.XmlNodeType.Attribute &&
            nodes[0].LocalName == "type" &&
            nodes[1].Prefix == "xmlns" &&
            nodes[1].Value == "http://schemas.microsoft.com/2003/10/Serialization/" &&
            nodes[2].NodeType == System.Xml.XmlNodeType.Text)
        {
            string iType = nodes[0].Value;
            string valNS = nodes[1].LocalName;
            string value = nodes[2].InnerText;

            if (value.Length > 0 &&
                iType.Length > 0 &&
                iType.Substring(0, valNS.Length + 1) == valNS + ":")
            {
```

```
                string type = iType.Substring(valNS.Length + 1);
                switch (type)
                {
                    case "char":
                        // string -> integer -> char -> string
                        result =
Convert.ToString(Convert.ToChar(Convert.ToInt32(value)));
                        break;
                }
            }
        }
    }
    else
    {
        // Our last resort, let the .NET converter do the work
        result = Convert.ToString(lookupKey);
    }

    return result;
}
```

Attend the parameter order

Keep in mind that all parameters for all (SOAP-) requests have to be in alphabetic order.

For example CultureId cannot be after CurrentPage.

Appendix A – Properties and Values

Please note that all data within **this section is always subject to change** and represents the current status at the same date that this document is dated it if not specified different. For an up-to-date list, please use the *Lookup* service and query for the real-time data.

Bodies

body_id	Description
1	2/3-Doors
2	Convertible
3	Coupe
4	Off-Road
5	Station Wagon
6	4/5-Doors
7	Other
12	Bus
13	Transporter
14	Van

Brands

brand_id	Description
6	Alfa Romeo
8	Aston Martin
9	Audi
11	Bentley
13	BMW
14	BMW-Alpina
15	Bugatti
16	Buick
17	Cadillac
19	Chevrolet
20	Chrysler
21	Citroen
22	Daewoo
23	Daihatsu
25	De Tomaso

27	Ferrari
28	Fiat
29	Ford
31	Honda
33	Hyundai
35	Isuzu
37	Jaguar
38	Jeep
39	Kia
40	Lada
41	Lamborghini
42	Lancia
43	Lexus
44	Lotus
45	Maserati
46	Mazda
47	Mercedes-Benz
48	MG
50	Mitsubishi
51	Morgan
52	Nissan
53	Oldsmobile
54	Opel
55	Peugeot
56	Pontiac
57	Porsche
60	Renault
61	Rolls-Royce
62	Rover
63	Saab
64	Seat
65	Skoda
66	SsangYong
67	Subaru
68	Suzuki
70	Toyota
71	TVR
73	Volvo
74	Volkswagen
2120	Triumph

2151	Plymouth
2152	Dodge
2153	GMC
14882	Iveco
14890	Lincoln
14979	AC
15525	Smart
15629	Innocenti
15633	Trabant
15636	Proton
15638	Panther
15641	Land Rover
15643	Austin
15644	Autobianchi
15645	Marcos
15646	Puch
15665	Motos-Bikes
15666	Talbot
15670	Oldtimer
15671	Asia
15672	Caravans-Wohnm
15673	Mercury
15674	HUMMER
16253	Trucks-Lkw
16326	Trailer-Anhänger
16327	Tata
16328	Others-Andere
16329	Continental
16330	De Lorean
16332	Polaris
16333	DAF
16334	Zastava
16335	Caterham
16336	Wartburg
16337	Galloper
16338	MINI
16339	Donkervoort
16340	Vauxhall
16341	Pagani
16342	Gillet

16343	Teener
16344	Bertone
16345	HDPIC
16346	Ginetta
16347	Venturi
16348	Maybach
16349	La Forza
16350	Piaggio
16351	Wiesmann
16352	Aixam
16353	Ligier
16354	Keinath
16355	Infiniti
16356	Acura
16357	Chatenet
16358	YES!
16359	Mahindra
16360	Dacia
16361	Microcar
16363	Fun Tech
16365	JDM
16367	Brilliance
16369	Santana
16372	Landwind
16373	Noble
16377	Spyker
16378	Artega
16379	BYD
16380	Corvette
16381	China Automobile
16382	Great Wall
16383	DR Motor

Body Colors

ID	Body Colour
1	Beige
2	Blue

3	Brown
4	Bronze
5	Yellow
6	Grey
7	Green
8	Light Blue
9	Light Green
10	Red
11	Black
12	Silver
13	Violet
14	White
15	Orange
16	Gold
17	Dark Red
18	Light Grey

Categories

category_id	Description
D	demonstration
O	oldtimer
J	jahreswagen
U	used car
N	new car
S	single day

Claims in requests

Group	Name
ExtraServices	ArticleInsertion
ExtraServices	CommunityReviews
Legal	TermsAndConditions
Legal	CommunityTerms
Legal	PrivacyAgreement
CustomerInfo	WantsNewsletter

Claims in responses

Group	Name
CustomerInfo	Gender
CustomerInfo	Title
CustomerInfo	LastLoginDate
CustomerInfo	NickName
CustomerInfo	WantsSurveys
CustomerInfo	WantsNewsletter
CustomerInfo	CustomerTypeId
CustomerInfo	CompanyName
CustomerInfo	AutoScout24SellId
Account	ActivationDate
Account	ActivationRequestDate
Account	PasswordReset
ArticleSearch	SeeDealerPrices
ArticleSearch	MaxBookmarkedArticles
ExtraServices	HomePageAds
ExtraServices	SMSNotification
ExtraServices	CarPortalService
ExtraServices	DataExport
ExtraServices	CarTracker
ExtraServices	Financing
ExtraServices	FeaturedAds
ExtraServices	DealerInfoPages
ExtraServices	PremiumArticles
ExtraServices	CallManagement
ExtraServices	LogoOnDetailPage
ExtraServices	LogoOnListPage
Account	ExpiryDate
Account	SearchSubscriptionMaxAllowed
Account	SearchSubscriptionRunInterval
Account	SearchSubscriptionActiveDays
ProtectedAreaAccess	DealerAreaAccess
ProtectedAreaAccess	PrivateBasicAreaAccess
ProtectedAreaAccess	CommunityClosedAreaAccess
ProtectedAreaAccess	IsPendingCommunityMember
Counters	CounterArticlesTotal

Counters	CounterArticlesActive
Counters	CounterArticlesInactive
Counters	CounterArticlesDeleted
Counters	CounterSearchJobsTotal
Counters	CounterSearchJobsActive
Counters	CounterSearchJobsInactive
Counters	CounterSearchJobsDeleted
Counters	CounterParkdeckTotal
Counters	CounterParkdeckUsed
Counters	CounterParkdeckNew
Counters	CounterLastArticleChange
Seals	AllSeals
Seals	DefaultSetSeals
Seals	NonEditableSeals

Countries

ID / Key	Country
A	Austria
B	Belgium
CH	Swiss
D	Germany
E	Spain
F	France
HR	Croatia
I	Italy
L	Luxemburg
NL	Netherlands
PL	Poland
RUS	Russian
S	Sweden
SLO	Slovenia
UK	United Kingdom
ES	Estonia
LV	Latvia
LT	Lithuania
RS	Serbia

AD	Andorra
CZ	Czech Republic
DK	Denmark
BG	Bulgaria
RO	Romania
SK	Slovakia
MC	Monaco

Department Types

ID	Department Type
1	Shop
2	Showroom
3	Service

Emission Classes

emission/class_id	Description
1	Euro1
2	Euro2
3	Euro3
4	Euro4
5	Euro5
0	Unknown
6	Euro6

Emission Stickers

emission/sticker_id	Description
4	Environmental sticker 4 (green)
3	Environmental sticker 3 (yellow)
2	Environmental sticker 2 (red)
1	Environmental sticker 1 (no sticker)

Equipments

equipments/equipment_id	Description
1	ABS
2	Airbag
3	Airbag passenger
4	Sunroof
9	Radio
10	Radio/CD
11	4WD
13	Power windows
14	Sport version (optional – currently not in use within most car ads)
15	Alloy wheels
17	Central door lock (optional – currently not in use within most car ads)
18	Alarm
21	Split rear seats
23	Navigation system
25	Winter tires (optional – currently not in use within most car ads)
26	Immobilizer
29	Catalyst converter
32	Side airbags
33	Electric mirrors
34	Heated seats
36	Handicapped enabled
37	Guaranteed used car
38	Cruise control
39	Xenon lights
40	Park Distance Control
41	On-board computer
42	ESP
19	Fog lights
20	Towing hook
5	Air conditioning
6	Leather seats
27	Roof rack
28	Tuned car
12	Power steering
30	Climate control
31	Traction control
16	Elect. adjustable seats

43	Radio/mp3 (optional – currently not in use within most car ads)
44	Wind deflector (optional – currently not in use within most car ads)
45	Rear airbag
46	Head airbag (optional – currently not in use within most car ads)
47	Central door lock with remote control
48	Right-hand drive
49	With full service history
50	Panorama roof
51	Lights at day (optional – currently not in use within most car ads)
52	Auxiliary heating
53	Particulate filter

Financing Types

Key	Financing Types
L	Leasing
C	Credit
T	Leasing Takeover

Financing Provider

Key	Financing Provider
5	Mercedes Benz Bank
7	Inserted by dealer
10	VW Bank
11	Audi Bank
16	VW Bank (for AS24 internal use / iFrame control)
17	VW Bank (for AS24 internal use / iFrame control)
18	VW Bank (for AS24 internal use / iFrame control)
19	VW Bank (for AS24 internal use / iFrame control)

Fuel Types

fuel_type_id	Description
B	Gasoline

D	Diesel
G	Gas
M	Ethanol
E	Electric
H	Hydrogene
L	LPG
C	CNG
2	Hybrid
O	Others
3	Hybrid (Electric/Diesel)

Info Page Types

ID	Info Page Type
A	Article List
B	Business
S	Services
E	Event
F	Franchise
R	Route
I	Impress

Models

Following are few examples of available models for selected brands. This list is INCOMPLETE as it is way too big to be put in here. You'll have to use the *Lookup* web service to query for the rest of the data. The description of this service though is not part of this document.

model_id	brand_id	Description
1667	13	M1
1646	13	M3
1655	13	M5
18577	13	M6
19242	13	X1
18387	13	X3
16406	13	X5
19110	13	X6
1666	13	Z1

1665	13	Z3
18308	13	Z4
16402	13	Z8
19083	9	A1
16416	9	A2
1624	9	A3
1626	9	A4
19047	9	A5
1628	9	A6
19216	9	A7
1629	9	A8
19245	27	458 Italia
19157	27	California
15758	27	Daytona
18289	27	Dino GT4
18309	27	Enzo Ferrari
1733	27	Mondial
18632	27	Superamerica
1734	27	Testarossa

Model-Lines

ID	Make-ID	Model Line Name
37	13	1-Series
38	13	3-Series
39	13	5-Series
40	13	6-Series
41	13	7-Series
42	13	8-Series
43	13	M-Series
44	13	X-Series
45	13	Z-Series
46	43	ES-Series
47	43	GS-Series
48	43	GX-Series
49	43	IS-Series
50	43	LS-Series
51	43	LX-Series

52	43	RX-Series
53	43	SC-Series
54	47	A-Series
55	47	B-Series
56	47	C-Series
57	47	CE-Series
58	47	CL-Series
59	47	CLK-Series
60	47	CLS-Series
61	47	E-Series
62	47	G-Series
63	47	GL-Series
64	47	ML-Series
65	47	R-Series
66	47	S-Series
67	47	SL-Series
68	47	SLK-Series
69	47	V-Series
70	57	911-Series
71	9	A3-Series
72	9	A6-Series
73	9	RS-Series
74	46	MX-Series
75	57	Boxster-Series
76	57	Cayenne-Series
77	57	Cayman-Series
78	64	Altea-Series
79	70	Avensis-Series
80	70	Corolla-Series
81	70	Yaris-Series
82	74	Golf-Series

Painting Types

painting_type_id	Description
U	Uni / Basic
M	Metallic
P	Perl Effect

S	Mica (Stoned)
O	Others

Phone types

type id		Description
	M	Mobile phone
	O	Office phone
	P	Private phone
	F	Fax
	V	Virtual phone number, used by Call Management
	S	SMS notification number

Usage-States

Key	Usage State
N	New
U	Used
A	Accidented
W	Wreck

Gear Types

gear_type_id		Description
	M	manual
	A	automatic

Statuses

status	Description
OK	The method call was successful.
FAILED	The method call failed; more information on the error is available under Errors node section of the response.
UserAuthenticationError	The method call failed due to invalid user credentials. Check

	username & password parameters.
DataValidationError	The method call failed due to some data validation error; more information on the error is available under Errors node section of the response.
UserNotAuthorizedForOperation	The method call failed due to insufficient rights to use the requested operation together with the user provided. Either call another method or switch to a different user.
UserIsNotArticleOwner	The method call failed due to user not being vehicle's owner. Either change vehicle ID or switch to a different user.
ArticleDoesNotExistError	The method call failed due to invalid/nonexistent vehicle ID. non existing article user not being vehicle's owner. Change vehicle ID.
NothingFound	Nothing found in a search.
WrongSearchCriteria	Wrong search criteria for a search

Properties

status	Description
as24_top_insertion	True if article is a top insertion.
as24_featured_ad	A flag determining whether the article is advertised separately on the website.
schwacke_code	This is for German vehicles only.
as24_customer_id	The customer id.

Seals

seals/seal_id	**description**
1	Ford A1 Euro-Garantie
2	A1 Star Collection
3	Volkswagen Voorkeurselectie
4	Audi A-Selectie
5	Volkswagen Bedrijfswagens Voorkeurselectie
6	Audi 2nd Make Warranty
7	AutoExpert (Alfa Romeo)
8	Alfa Romeo 2nd Make Warranty
9	MG ROVER ORIGINALS
10	Rover 1st Make Warranty
11	BMW Huisselectie
12	AutoExpert (Fiat)
13	Kia Klasse Kollektie

14	Kia 2nd Make Warranty
15	5 STAR OCCASIONS
16	Chrysler 2nd Make Warranty
17	Citroen Select
18	Citroen 2nd Make Warranty
19	Daewoo 1st Make Warranty
20	Daewoo 2nd Make Warranty
21	Karaat Occasions
22	Daihatsu 2nd Make Warranty
23	Asia Motors 1st Make Warranty
24	Asia Motors 2nd Make Warranty
25	MINI NEXT
26	Fiat 2nd Make Warranty
27	Ferrari 1st Make Warranty
28	Ferrari 2nd Make Warranty
29	General Motors 1st Make Warranty
30	General Motors 2nd Make Warranty
31	AutoExpert (Lancia)
32	Lancia 2nd Make Warranty
33	Dealer Selectie Occasion
34	Hyundai Dealer Selectie(2)
35	Jaguar 1st Make Warranty
36	Jaguar 2nd Make Warranty
37	Lada 1st Make Warranty
38	Lada 2nd Make Warranty
39	Kroonkollektie
40	Mazda 2nd Make Warranty
41	Land Rover 1st Make Warranty
42	Land Rover 2nd Make Warranty
43	Lotus 1st Make Warranty
44	Lotus 2nd Make Warranty
45	Maserati 1st Make Warranty
46	Maserati 2nd Make Warranty
47	Honda & Used Car
48	Honda & Used Car(2)
49	Ster Occasion
50	Mercedes-Benz 2nd Make Warranty
51	Mitsubishi Diamond Class
52	Mitsubishi 2nd Make Warranty
53	Nissan Quality Line

54	Nissan Quality Line (2)
56	G2 Premium 24 maanden
57	Leeuwekeur Gebruikte Auto
58	Leeuwekeur Bedrijfsauto
59	Porsche Approved Occasion
60	Porsche 2nd Make Warranty
61	Renault Top Occasion 12mnd
62	Renault Top Occasion 24mnd
63	Rolls Royce/Bentley 1st Make Warranty
64	Rolls Royce/Bentley 2nd Make Warranty
65	Saab Select
66	Saab 2nd Make Warranty
67	SEAT Occasion
68	SEAT Selection
69	Garant Auto
70	Skoda 2nd Make Warranty
71	Zes Sterren Selectie Subaru
72	Subaru 2nd Make Warranty
73	Suzuki Select Occasions
74	Subaru 2ndMake Warranty
75	Ssang Yong 1st Make Warranty
76	Ssang Yong 2nd Make Warranty
77	Toyota 1st Class Occasion
78	Toyota/Lexus 2nd Make Warranty
79	Volvo Selected Used Cars
80	Volvo 2nd Make Warranty
81	Smart 1st Make Warranty
82	Smart 2nd Make Warranty
83	Dekra Seal Reservation
84	Dekra Seal Note 1
85	G2 Select 12 maanden
86	G2 Economy 12 maanden
87	Dekra Seal Note 4
88	PCA Top Occasion
89	Bovag W2
90	Peugeot Garantiesiegel
91	A pplus+
92	Porsche Garantiesiegel
94	VETOS No-nonsense occasiongarantie
96	Vergoelst Auto-Check

98	Renault Quality Seal
100	Renault Garantie Or
102	Audi Gebrauchtwagen:plus
104	Quality seal BMW Premium Selection
108	Nur von Toyota Geprüfte Gebrauchtwagen
110	Mini Make Warranty
111	Land Rover Approved Selection
112	Jaguar First Class
114	Lexus Premium Warranty
116	Lexus Occasion Garantie
117	Lexus Garantiesiegel
118	MyWay (VW, Skoda, Audi, Seat)
119	Best Car Selection
120	SternGarant
121	Federauto GVO
122	Toyota Top Car
123	DIAMANT Gebrauchtwagen von Mitsubishi
124	VW TradePort Gütesiegel
125	Volkswagen First Class
126	BMW Premium Selection (BE)
127	BMW Premium Selection (DE)
128	Mini Next
129	SaabBySaab
130	Seat Selection
131	Maserati Certified Pre-Owned
132	Mercedes-Benz Ex Novo
133	Nearly New Car
134	Quality Seal Peugeot
135	Jaguar Quality Seal (LU)
136	Land Rover Quality Seal (LU)

Services

ID	Service Type / Name
10	Exhaust test
20	Breakdown service
30	Electric circuits repair
40	Window repair

60	Spare parts
70	Replacement car
80	Bikes
90	Financial services
95	Body shop
100	Paint shop
110	Motorbikes
120	Motorbikes
130	Navigation system
150	Gas station
160	Gas station shop
170	Telesale
180	Insurance
190	Car Wash
200	Workshop
210	24h-Service
220	DEKRA quality signet
230	Inspection
140	Tires sale
145	Rush service
97	Air Conditioning Fitting
45	Car upholstery
50	Car accessories

Appendix B – Return Codes

Code	Type	Description
0	Success	Search performed without errors.
1	Insufficient Criteria	The criteria supplied are not sufficient.
2	Wrong criteria	One or more criteria could not be validated.
3	Nothing Found	No search results.
4	Error	An error occurred during the search.

5	Invalid Zip Code	An error occurred during a zip radius search, the supplied zip code could not be found in the database.
6	Debug	Debugging mode
7	Insufficient Zip Criteria	The zip criteria (code or radius) are incomplete and no DB search is even started