

**RELEASENOTES IVI MESSAGEBOOK VERSION 1.1**  
**CORRECTIONS/ADDITIONS TO THE IVI MESSAGE AND OR IVI**  
**MESSAGEBOOK**

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# Initial Vehicle Information XSD New version per October2014

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## Introduction

The changes mentioned in this document were made as a result of remarks from users of the previous version, and the introduction of new guidelines especially the new two three wheel guideline **168/2013 (901/2014)**.

The new version of the XSD scheme can be used as of publication of the file in October 2014. It is backwards compatible with the previous version.

Please note that the messagebook now also contains a field "Usage", with information on how to use certain fields.

## Extend or introduce code listings in the XSD

Field description	Coding
TypeOfTyre	Add: MST = Multi Service Tyre XLMS = Extra load M&S Tyre
Country codes for (EFTA) countries	Change 99/37 codes for Vienna codes, to add more countries  IntendedCountryOfRegistrCode FiscPowOrNatCodeNrsCountryCode  The 99/37 codes: A, B, BG, CY, CZ, D, DK, E, EST, F, FIN, GR, H, HR, I, IRL, L, LT, LV, M, NL, P, PL, RO, S, SK, SLO, UK  Change/add the codes to the countries listed in Appendix 1. Vienna country codes. The only effective change is UK to GB , and some new codes are available.
VehicleCategoryCode	Add a coding list. See Appendix 2. Vehicle category codes
AddressTypeCode	Add new enumeration code for: CUS = Customer  The IVI message can also be used for IAC. In this case the customer's name can be added.
ExhaustEmissionLevelEuro (add codes)	There are some new codes introduced by regulation 136/2014. Add: EURO 6 ZD EURO 6 ZE EURO 6 ZF ZX ZY ZZ
FuelCode	The fuel type LNG has been introduced by regulation 133/2014  Change: all NG code descriptions to CNG Add: news fuels  2007/46/EC: 25. 371/2010: 26. 183/2011 IAC: 26. 2002/24/EC: 25. 2003/37/EC: 3.1.7.

	<p>Changes are marked in red.</p> <p>Values:</p> <p><del>00 Non (or empty)</del></p> <p>10 Petrol</p> <p>11 Petrol E5</p> <p>12 Petrol E10</p> <p>13 Petrol E15</p> <p>15 Ethanol (unspecified)</p> <p>16 Ethanol E85</p> <p>18 Ethanol E75 (2007/46 136/2014)</p> <p>19 Mixture</p> <p>20 Diesel</p> <p>21 Biodiesel</p> <p>22 ED95</p> <p>30 LPG</p> <p>40 CNG (change description because LNG has been added)</p> <p>41 CNG-L (change description because LNG has been added)</p> <p>42 CNG-H (change description because LNG has been added)</p> <p>43 CNG-HL (change description because LNG has been added)</p> <p>44 Biomethane (RAR guideline)</p> <p>50 Hydrogen</p> <p>55 H2NG)</p> <p>60 LNG (2007/46 133/2014)</p> <p>72 hE-15</p> <p>81 Diesel B5 (RAR 134/2014)</p> <p>82 Diesel B7 (2007/46 136/2014)</p> <p>90 Other</p> <p>91 Compressed air (RAR)</p>
CodeForBodyworkSpecPurpVeh	<p>The new codifications SL an SM are introduced by regulation 214/2014</p> <p>SL = Exceptional load transport motor vehicle</p> <p>SM = Multi-equipment carrier</p>
InterconnWithPoweredAxleNumber	<p>Defined as NUM 1 has to be changed to NUM 2.</p> <p>In order to be able to add more than 9 axles.</p>
GearboxTypeCode	<p>The new codification O and W are introduced by regulation 901/2014</p> <p>O = Other</p> <p>W= Wheel hub</p>
WorkingPrincipleCode	<p>The new codification needed due the introduced by regulation 901/2014</p> <p>internal combustion engine (ICE)/positive ignition/compression ignition/external combustion engine (ECE)/turbine/compressed air</p> <p>IE internal combustion engine positive ignition</p> <p>IC internal combustion engine compression ignition</p> <p>EF external combustion engine</p> <p>EP external combustion engine positive ignition</p> <p>EC external combustion engine compression ignition</p> <p>TB turbine</p>

	CA compressed air
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## Initial Vehicle Information Other changes and new fields

### Alle decimal fields

For all fields which can contain a decimal value min/max range of values has been added. This prevents entering invalid values. For instance if a field has been defined as 9,5 the value 999999999 cannot be entered anymore.

### VersionNumberXSD

<b>Field description</b>	<b>VersionNumberXSD</b>
<b>Definition</b>	Refers to the version of the XSD file which has been used to generate and validate the COC XML file.
<b>Valueset</b>	Versionnummer 1.1
<b>A-N</b>	5
<b>Tag</b>	Header below IVIReferenceId

### TyreTubeTypeCode (new field)

<b>Messageheader</b>	To be added to the <b>TyreAxleGroup</b>
<b>Field</b>	TyreTubeTypeCode
<b>Format</b>	A-N 3
<b>Value collection</b>	TL , TT
<b>Description</b>	<p>Tyre tube type code.</p> <p>2007/46/EC: 32. 371/2010: 35. 183/2011 IAC: 35. 2002/24/EC: 32. 901/2014: 6.18.1.1. 2003/37/EC: 2.2.3.1</p> <p>Values: TL = Tubeless TT= Tube type</p>

### AllowedEuropeanMarketIndicator (new field)

<b>Messageheader</b>	To be added to the <b>CocDataGroup</b>
<b>Field</b>	AllowedEuropeanMarketIndicator
<b>Format</b>	A-N 1
<b>Value collection</b>	Y,N

<b>Description</b>	To indicate if a vehicle can be registered within the European market.  2007/46/EC: NN 371/2010: NN (mentioned within the Remarks field) 183/2011 IAC: NN 2002/24/EC: NN 2003/37/EC: NN
<b>Usage</b>	The field is mandatory for all vehicle categories.

### ActualMassIncomplVehicle (new field)

<b>Messageheader</b>	To be added to the <b>CocDataGroup</b>
<b>Field</b>	ActualMassIncomplVehicle
<b>Format</b>	NUM 6
<b>Unit</b>	kg
<b>Description</b>	The actual mass of the incomplete vehicle.  2007/46/EC: NN 1230/2012: 14. 183/2011 IAC: NN 2002/24/EC: NN 901/2014: 2.1.2. 2003/37/EC: NN
<b>Usage</b>	Mandatory for incomplete vehicles of the categories M, N, O.

### DistrOfActualMassIncomplAxle (new field)

<b>Messageheader</b>	To be added to the <b>AxleGroup</b>
<b>Field</b>	DistrOfActualMassIncomplAxle
<b>Format</b>	NUM 5
<b>Unit</b>	kg
<b>Description</b>	Distribution of the actual mass of the incomplete vehicle amongst the axles.  2007/46/EC: NA 1230/2012 : 17.1 183/2011 IAC: NA 2002/24/EC: NA 2003/37/EC: NA

### MaximumSpeedNonPropulsion (new field)

<b>Messageheader</b>	To be added to the <b>CocDataGroup</b>
<b>Field</b>	MaximumSpeedNonPropulsion
<b>Format</b>	NUM 5,2
<b>Unit</b>	km/h
<b>Description</b>	Maximum vehicle speed for vehicle without propulsion.  2007/46/EC: 44. 371/2010: 29.   183/2011 IAC: 29. 2002/24/EC: 44. 2003/37/EC: 4.7.1
<b>Usage</b>	For vehicles without an engine this entry must be used to enter the maximum speed. This field is mandatory for complete or incomplete vehicles without propulsion.

### MaximumHourlyPower (new field)

<b>Messageheader</b>	To be added to the <b>CocDataGroup</b>
<b>Field</b>	MaximumHourlyPower
<b>Format</b>	NUM 6,2
<b>Unit</b>	kW
<b>Description</b>	The maximum netpower measured according to paragraph 5.3.1., electric propulsion engines can deliver with continues current for a period of one hour.  2007/46/EC: NA 371/2010: NA 136/2014: 27.2. 183/2011 IAC: NA 2002/24/EC: NA 2003/37/EC: NA
<b>Usage</b>	Only to be used for electric engines.

### MaximumNetPowerElectricEngine (new field)

<b>Messageheader</b>	To be added to the <b>CocDataGroup</b>
<b>Field</b>	MaximumNetPowerElectricEngine
<b>Format</b>	NUM 6,2



<b>Unit</b>	kW
<b>Description</b>	Maximum net power for electric engines.  2007/46/EC: - 371/2010: - 136/2014: 27.3. 183/2011 IAC: - 2002/24/EC: - 2003/37/EC: NA
<b>Usage</b>	Only to be used for electric engines.

### DualFuelType (new field)

<b>Messageheader</b>	To be added to the <b>COCDDataGroup</b>
<b>Field</b>	Dual fuel type
<b>Description</b>	The normal operating mode of a dual-fuel engine during which the engine simultaneously uses diesel fuel and a gaseous fuel at some engine operating conditions.  2007/46/EC: - 371/2010: - 133/2014: 26.2. 183/2011 IAC: - 2002/24/EC: - 003/37/EC: NA
<b>Format</b>	A-N 15
<b>Valueset</b>	Type 1A Type 1B Type 2A Type 2B Type 3B
<b>Usage</b>	Only applicable for dual fuel engines (FuelTypeCode=D).

### TwentyFourGHzRadarInd (new field)

<b>Messageheader</b>	To be added to the <b>CocDataGroup</b> just <b>after Remarks</b>
<b>Field</b>	TwentyFourGHzRadarInd
<b>Format</b>	A-N 1
<b>Value collection</b>	Y,N
<b>Description</b>	To indicate if a vehicle is equipped with a 24 Ghz short radar.  2007/46/EC: 50. 371/2010: 52. <b>133/2014: 52.</b> 183/2011 IAC: 52.

	2002/24/EC: - 2003/37/EC: NA
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## New entries 2-3 wheel guideline (RAR)

### AdvancedBrakingSystemCode

<b>Messageheader</b>	To be added to <b>COCDataGroup</b>
<b>Field</b>	AdvancedBrakingSystemCode
<b>Format</b>	A-N 3
<b>Value collection</b>	ABS, CBS, NON, ACB
<b>Description</b>	<p>Code to identify the type of advanced braking system</p> <p>2007/46/EC: NA 183/2011 IAC: NA 2002/24/EC: NA 901/2014: 6.2.4. 2003/37/EC: NA</p> <p>Values:</p> <p>ABS = Anti-lock braking system CBS -= Combined braking system NON = No advanced braking system ACB = Combined ABS/CBS braking system</p>

### WheelBaseSideCar

<b>Messageheader</b>	To be added to <b>COCDataGroup</b>
<b>Field</b>	WheelBaseSideCar
<b>Format</b>	NUM 5
<b>Unit</b>	mm
<b>Definition</b>	<p>Wheelbase measured from the front wheel to the centre of the sidecar wheel.</p> <p>2007/46/EC: NA 183/2011 IAC: NA 2002/24/EC: NA 901/2014: 2.2.4. 2003/37/EC: NA</p>

### WheelBaseGroundRatio

<b>Messageheader</b>	To be added to <b>COCDataGroup</b>
<b>Field</b>	WheelBaseGroundRatio
<b>Format</b>	NUM 3,2
<b>Definition</b>	Wheelbase to ground clearance ratio

	2007/46/EC: NA 183/2011 IAC: NA 2002/24/EC: NA 901/2014: 2.2.15. 2003/37/EC: NA
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### SeatingHeight

<b>Messageheader</b>	To be added to <b>COCDataGroup</b>
<b>Field</b>	SeatingHeight
<b>Format</b>	NUM 4
<b>Unit</b>	mm
<b>Definition</b>	Height of the seats  2007/46/EC: NA 183/2011 IAC: NA 2002/24/EC: NA 901/2014: 2.2.17. 2003/37/EC: NA

### GroundClearanceBetweenAxles

<b>Messageheader</b>	To be added to <b>AxleGroup</b>
<b>Field</b>	GroundClearanceBetweenAxles
<b>Formay</b>	NUM 4
<b>Unit</b>	mm
<b>Definition</b>	Ground clearance between the axles.  2007/46/EC: NA 183/2011 IAC: NA 2002/24/EC: NA 901/2014: 2.2.10.6. 2003/37/EC: NA
<b>Usage</b>	Ground clearance from this axle to the next axle.

### Maximum15MinutesPower

<b>Messageheader</b>	To be added to <b>COCDataGroup</b>
<b>Field</b>	Maximum15MinutesPower
<b>Format</b>	NUM 6,2
<b>Unit</b>	kW
<b>Definition</b>	The maximum netpower measured according to paragraph 5.3.1., electric propulsion engines can deliver with continues current for a period of 15 minutes.  2007/46/EC: NA

	183/2011 IAC: NA 2002/24/EC: NA 901/2014: 3.3.3.4. 2003/37/EC: NA
<b>Usage</b>	Only to be used for vehicles of the L category.

### ManufacturerHybridApplication

<b>Messageheader</b>	Add a new Group within the COCDataGroup:  HybridApplicationGroup <b>ManufacturerHybridApplication</b>
<b>Field</b>	ManufacturerHybridApplication
<b>Format</b>	A-N 52
<b>Definition</b>	Manufacturer of the hybrid application.  2007/46/EC: NA 183/2011 IAC: NA 2002/24/EC: NA 901/2014: 3.1.3.1. 2003/37/EC: NA

### HybridApplicationCode

<b>Messageheader</b>	Add a new Group within the COCDataGroup:  HybridApplicationGroup <b>HybridApplicationCode</b>
<b>Field</b>	HybridApplicationCode
<b>Format</b>	A-N 40
<b>Definition</b>	Manufacturer's hybrid application code  2007/46/EC: NA 183/2011 IAC: NA 2002/24/EC: NA 901/2014: 3.1.3.2. 2003/37/EC: NA

## ElectricVehicleConfigurCode

<b>Messageheader</b>	Add a new Group within the COCDataGroup: HybridApplicationGroup <b>ElectricVehicleConfigurCode</b>
<b>Field</b>	ManPowerElectric
<b>Format</b>	A-N 1
<b>Value collection</b>	P, H, M
<b>Description</b>	Electric vehicle configuration: pure electric/hybrid electric/manpower — electric  2007/46/EC: NA 183/2011 IAC: NA 2002/24/EC: NA 901/2014: 3.3.1. 2003/37/EC: NA  P = Pure electric H = Hybrid electric M = Manpower - electric

## CategoryOfHybridElectricVehInd

<b>Messageheader</b>	Add a new Group within the COCDataGroup: HybridApplicationGroup <b>CategoryOfHybridElectricVehInd</b>
<b>Field</b>	CategoryOfHybridElectricVehicleIndicator
<b>Format</b>	A-N 1
<b>Value collection</b>	Y/N
<b>Description</b>	3.3.5.2. Category of hybrid electric vehicle: off-vehicle charging/not off-vehicle charging  2007/46/EC: NA 183/2011 IAC: NA 2002/24/EC: NA 901/2014: 3.3.5.2. 2003/37/EC: NA  Y = Yes N = No

### MaximumAssistanceFactor

<b>Messageheader</b>	Add to the COCDataGroup
<b>Field</b>	MaximumAssistanceFactor
<b>Format</b>	NUM 3,2
<b>Value collection</b>	Y/N
<b>Description</b>	<p>3.9.2. Maximum assistance factor of the engine for cycles designed to pedal</p> <p>2007/46/EC: NA            183/2011 IAC: NA            2002/24/EC: NA            901/2014: 3.9.2.            2003/37/EC: NA</p>

### MaximumAssistanceSpeed

<b>Messageheader</b>	Add a new field within the COCDataGroup
<b>Field</b>	MaximumAssistanceSpeed
<b>Format</b>	NUM 5,2
<b>Unit</b>	km/h
<b>Description</b>	<p>3.9.3. Maximum vehicle speed for which the electric motor gives assistance (3q) : ..... km/h</p> <p>2007/46/EC: NA            183/2011 IAC: NA            2002/24/EC: NA            901/2014: 3.9.3.            2003/37/EC: NA</p>

### FinalDriveNumber

<b>Messageheader</b>	<p>Add a new table : FinalDriveTable with a Group:</p> <p><b>FinalDriveGroup</b>  <b>FinalDriveNumber</b></p>
<b>Field</b>	FinalDriveNumber
<b>Format</b>	NUM 1
<b>Description</b>	Unique sequential number in order to identify the final drives.

## FinalDriveRatio

<b>Messageheader</b>	Add a new table : FinalDriveTable with a Group:  <b>FinalDriveGroup</b> <b>FinalDriveRatio</b>
<b>Field</b>	FinalDriveRatio
<b>Format</b>	NUM 7,5
<b>Description</b>	Final drive ratio  2007/46/EC: NA 183/2011 IAC: NA 2002/24/EC: NA 901/2014: 3.5.4.1. 2003/37/EC: NA

## OverallGearRatioHighestGear

<b>Messageheader</b>	Add a new table : FinalDriveTable with a Group:  <b>FinalDriveGroup</b> <b>OverallGearRatioHighestGear</b>
<b>Field</b>	OverallGearRatioHighestGear
<b>Format</b>	NUM 7,5
<b>Description</b>	Overall gear ratio in highest gear  2007/46/EC: NA 183/2011 IAC: NA 2002/24/EC: NA 901/2014: 3.5.4.2. 2003/37/EC: NA

## TestprocType2HCAtNormIdleSp

<b>Messageheader</b>	To be added to the group TestprocedureType2Group.
<b>Field</b>	TestprocType2HCAtNormIdleSp
<b>Format</b>	NUM 9,5
<b>Unit</b>	ppm
<b>Description</b>	3.2.15.2. Type II HC: ...ppm at normal idle speed  2007/46/EC: NA 183/2011 IAC: NA 2002/24/EC: NA 901/2014: 3.2.15.2.



	2003/37/EC: NA
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### TestprocType2HCAtHighIdleSp

<b>Messageheader</b>	To be added to a new group:  <b>TestprocedureType2Group</b> <b>TestprocType2HCAtHighIdleSp</b>
<b>Field</b>	TestprocType2HCAtHighIdleSp
<b>Format</b>	NUM 9,5
<b>Unit</b>	ppm
<b>Description</b>	3.2.15.2. Type II HC: ...ppm at high idle speed  2007/46/EC: NA 183/2011 IAC: NA 2002/24/EC: NA 901/2014: 3.2.15.2. 2003/37/EC: NA

### ConvertingPerformanceIndic

<b>Messageheader</b>	To be added to the COCDataGroup
<b>Field</b>	ConvertingPerformanceIndic
<b>Format</b>	A-N 1
<b>Value collection</b>	Y, N
<b>Description</b>	Vehicle appropriate for converting its performance level between subcategories (L3e/L4e)-A2 and (L3e/L4e)-A3 and vice versa: yes/no 2007/46/EC: NA 183/2011 IAC: NA 2002/24/EC: NA 901/2014: 8.1. 2003/37/EC: NA

### RecomTyrePressureLoadCode

<b>Messageheader</b>	To be added to a new group:  <b>TyreAxlePressureGroup</b> <b>RecomTyrePressureLoadCode</b>
<b>Field</b>	RecomTyrePressureLoadCode
<b>Format</b>	A-N 1

<b>Value collection</b>	E, H, F
<b>Description</b>	RecomTyrePressureLoadCode  2007/46/EC: NA 183/2011 IAC: NA 2002/24/EC: NA 901/2014: 6.18.1.1 2003/37/EC: NA  E = Empty H = Half loaded F = Fully loaded

### RecommendedTyrePressure

<b>Messageheader</b>	To be added to a new group:  <b>TyreAxlePressureGroup</b> <b>RecommendedTyrePressure</b>
<b>Field</b>	RecommendedTyrePressure
<b>Format</b>	NUM 4,2
<b>Unit</b>	kPa
<b>Description</b>	Recommended tyre pressure  2007/46/EC: NA 183/2011 IAC: NA 2002/24/EC: NA 901/2014: 6.18.1.1 2003/37/EC: NA

### TestprocTypeVIICO2

<b>Messageheader</b>	To be added to the TestprocTypeVIIGroup within the FuelGroup:  <b>TestprocTypeVIIGroup</b> <b>TestprocTypeVIICO2</b>
<b>Field</b>	TestprocTypeVIICO2
<b>Format</b>	NUM 9,5
<b>Unit</b>	g/km
<b>Description</b>	4.0.3.1. CO2. 2.2.1.8.6. CO2 Result of type VII (TR TTVIIX) ...g/km

	2007/46/EC: NA 183/2011 IAC: NA 2002/24/EC: NA 901/2014: 4.0.3.1.. 2003/37/EC: NA
<b>Usage</b>	For OVC-hybrid vehicles (Plug-in hybrids) use the item WeightedCombinedCO2

### TestprocTypeVIIFuelConsumption

<b>Messageheader</b>	To be added to the TestprocTypeVIIGroup within the FuelGroup:  <b>TestprocTypeVIIGroup</b> <b>TestprocTypeVIIFuelConsumption</b>
<b>Field</b>	TestprocTypeVIIFuelConsumption
<b>Format</b>	NUM 9,5
<b>Unit</b>	l/100km
<b>Description</b>	2.2.1.8.6. Fuelconsumption Result of type VII (TR TTVIIx) ...g/km  2007/46/EC: NA 183/2011 IAC: NA 2002/24/EC: NA 901/2014: 4.0.3.2.. 2003/37/EC: NA
<b>Usage</b>	For OVC-hybrid vehicles (Plug-in hybrids) use the item WeightedCombinedFuelCons

### TotalCO2EmisSavDueEcoInnFuel

<b>Messageheader</b>	To be added to the FuelGroup
<b>Field</b>	The field is already available as TotalCO2EmisSavingDueEcoInnov in the CoC datagroup. It should be available on a fuel level. So it has to be added to the fuel level. The existing field should not be used any anymore.

## Appendix 1 Vienna country codes:

Vienna	Country
AL	Albania
AND	Andorra
AM	Armenia
A	Austria
AZ	Azerbaijan
AX	Aland
BY	Belarus
B	Belgium
BIH	Bosnia and Herzegovina
BG	Bulgaria
HR	Croatia
CY	Cyprus
CZ	Czech Republic
DK	Denmark
EST	Estonia
FO	Faroe Islands
FIN	Finland
F	France
D	Germany
GBA	Alderney
GBZ	Gibraltar
GE	Georgia
GR	Greece
GBG	Guernsey
H	Hungary
IS	Iceland
IRL	Ireland
I	Italy
GBJ	Jersey
LV	Latvia
FL	Liechtenstein
LT	Lithuania
L	Luxembourg
MK	Macedonia
M	Malta
GBM	Isle of Man
MD	Moldova
MC	Monaco
MNE	Montenegro
NL	Netherlands
N	Norway
PL	Poland

P	Portugal
RO	Romania
RUS	Russia
RSM	San Marino
SRB	Serbia
SK	Slovakia
SLO	Slovenia
E	Spain
S	Sweden
CH	Switzerland
TR	Turkey
UA	Ukraine
GB	United Kingdom (of Great Britain and Northern Ireland) GB is the official code.
V	Vatican City

## Appendix 2 Vehicle category codes:

<b>4-wheel</b>	<b>2/3 wheel</b>	<b>forestry</b>	<b>forestry</b>	<b>forestry</b>
M1	L1e	T1	C1	R1a
M1S	L2e	T2	C2	R2a
M1G	L3e	T3	C3	R3a
M1GS	L4e	T4.1	C4.1	R4a
M2	L5e	T4.2	C4.2	R1b
M2S	L6e	T4.3	C4.3	R2b
M2G	L7e	T5	C5	R3b
M2GS	L1e-A	T1a	C1a	R4b
M3	L1e-B	T2a	C2a	
M3S	L2e-P	T3a	C3a	
M3G	L2e-U	T4.1a	C4.1a	
M3GS	L3e-A1	T4.2a	C4.2a	
N1	L3e-A2	T4.3a	C4.3a	
N1S	L3e-A3	T1b	C1b	
N1G	L3e-A1E	T2b	C2b	
N1GS	L3e-A2E	T3b	C3b	
N2	L3e-A3E	T4.1b	C4.1b	
N2S	L3e-A1T	T4.2b	C4.2b	
N2G	L3e-A2T	T4.3b	C4.3b	
N2GS	L3e-A3T			
N3	L5e-A			
N3S	L5e-B			
N3G	L6e-A			
N3GS	L6e-BU			
O1	L6e-BP			
O1S	L7e-A1			
O2	L7e-A2			
O2S	L7e-B1			
O3	L7e-B2			
O3S	L7e-CU			
O4	L7e-CP			
O4S				