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# Customer Information Quality Specifications Version 3.0-Release Notes

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**Related work:**

This version of the CIQ specifications replaces or supercedes OASIS CIQ V3.0 Committee Specification released in November 200.

**Abstract:**

This document provides an overview of the differences between version 2.0 and version 3.0 of the CIQ Technical Committee (TC) Specifications

**Status:**

This document was last revised or approved by the OASIS CIQ TC on the above date. The level of approval is also listed above. Check the current location noted above for possible later revisions of this document. This document is updated periodically on no particular schedule.

Technical Committee members should send comments on this specification to the Technical Committee's email list. Others should send comments to the Technical Committee by using the "Send A Comment" button on the Technical Committee's web page at [www.oasis-open.org/committees/ciq](http://www.oasis-open.org/committees/ciq).

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The non-normative errata page for this specification is located at [www.oasis-open.org/committees/ciq](http://www.oasis-open.org/committees/ciq).

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# 1 Introduction

The purpose of this document also is to give readers a quick snapshot of the differences between the two versions of the CIQ TC specifications and help plan them to migrate from version 2.0 to version 3.0.

- **xNL** : extensible Name Language
- **xAL**: extensible Address Language
- **xNAL**: extensible Name and Address Language (combines xNL and xAL)
- **xPIL**: extensible Party Information Language (formerly known as extensible Customer Information language (**xCIL**))
- **xPRL**: extensible Party Relationships Language (formerly known as extensible Customer Relationships Language (**xPRL**) – Release data for this specification not set yet

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## 2 Differences between Version 2.0 and 3.0

In this section, we summarise the key differences between version 2.0 and version 3.0 of the CIQ TC specifications. The following documents should be read in conjunction with this document to get a detailed understanding of the differences:

- CIQ TC – Technical Overview V3.0
- CIQ TC – Name, Address and Party Specifications V3.0
- CIQ TC – Party Relationships Specification V3.0 – release date not set yet
- W3C xLink Recommendation (<http://www.w3.org/1999/xlink>)

### 2.1 New Design Approach

Version 3.0 has taken a new design approach to modeling CIQ Specifications. Please study the Technical Overview document or the CIQ XML Schemas for more information. The new approach is summarised as follows (See section 2.1 of Technical Overview document for further information):

- Flat data structure design as opposed to the deeply nested hierarchical data structure in V2.0
- Generic element and attributes reused throughout the schema, but at the same time maintaining the semantic integrity of the data
- Importance of semantics by enabling users to define the semantics of data for a particular context (e.g. cultural requirements) rather than forcing a single/common definition on the users
- Enumerations to support extensibility of the schema and to support customisation of the schema to meet application requirements without impacting the structure of the schema
- Strong focus on namespace support for extensibility in a controlled manner
- Flexibility to meet cultural specific data semantic requirements
- Design approach based on implementation requirements and to ease implementation by programmers/developers
- Data Modeling approach
- Practical Requirements based approach.
- Provides a platform parties exchanging data to agree on interoperability with minimum complexity as the specifications are less ambiguous

### 2.2 DTD Support

Version 3.0 does not support any DTDs.

### 2.3 Backward Compatibility

Version 3.0 is NOT backward compatible with Version 2.0. However, version 3 can represent any party related information that version 2 can, but in a simpler and more elegant way easing the implementation tasks.

### 2.4 Names for Specifications

Term “PARTY” has a broader definition than term “CUSTOMER”. Customer is a subset of party. Therefore, the name “extensible Customer Information Language (xCIL)” is now replaced with the name “extensible Party Information Language (xPIL)” in version 3.0 and “extensible Customer Relationships Language (xCRL)” is now replaced with the name “extensible Party Relationships Language (xPRL)” in version 3.0.

51

## 52 2.5 UML Model

53 Version 3.0 provides high level UML models of the specifications that reflect the XML schemas that  
54 support the specifications.

## 55 2.6 Schema Structure

56 There are different ways to model data, including hierarchical, relational and object-oriented. Address  
57 data for example, is hierarchical in nature (Example: a country has cities, a city has streets and streets  
58 have premises, premises have sub premises etc). So a hierarchical model was used to design the data  
59 model in Version 2.0.

60 However, due to the deep nested structure of the schemas, building object models from the schemas  
61 have been proven to be complex to implement and expensive. Therefore, version 3.0 design uses a  
62 relational approach by defining a flat schema structure. An example that differentiates the two  
63 approaches is shown below. Let us consider the following address example:

### 64 2.6.1 Example

65 Egis Building, Level 12, 67 Albert Avenue,  
66 Chatswood, NSW 2067, Australia

67  
68  
69

#### Representation in xAL Version 2.0

```
70 <AddressDetails>  
71   <Country>  
72     <CountryName>Australia</CountryName>  
73     <AdministrativeArea>  
74       <AdministrativeAreaName>NSW</AdministrativeAreaName>  
75       <Locality>  
76         <LocalityName>Chatswood</LocalityName>  
77         <Thoroughfare>  
78           <ThoroughfareNumber>67</ThoroughfareNumber>  
79           <ThoroughfareName>Archer Avenue</ThoroughfareName>  
80           <Premise Type="Building">  
81             <BuildingName>Egis</BuildingName>  
82             <SubPremise Type="LEVEL">  
83               <SubPremiseNumber>12</SubPremiseNumber>  
84             </SubPremise>  
85           </Premise>  
86         </Thoroughfare>  
87         <PostalCode>  
88           <PostalCodeNumber>2067</PostalCodeNumber>  
89         </PostalCode>  
90       </Locality>  
91     </AdministrativeArea>  
92   </Country>  
93 </AddressDetails>  
94
```

## Representation in xAL Version 3.0

```
<a:Address>
  <a:Country>
    <a:NameElement>Australia</a:NameElement>
  </a:Country>
  <a:AdministrativeArea>
    <a:NameElement>NSW</a:NameElement>
  </a:AdministrativeArea>
  <a:Locality>
    <a:NameElement>Chatswood</a:NameElement>
  </a:Locality>
  <a:Thoroughfare>
    <a:NameElement>Albert Avenue</a:NameElement>
    <a:Number>67</a:Number>
  </a:Thoroughfare>
  <a:Premises>
    <a:NameElement a:NameType="BuildingName">Egis Building</a:NameElement>
    <a:NameElement a:NameType="Location">Level 12</a:NameElement>
  </a:Premises>
  <a:PostalCode>
    <a:Identifier>2067</a:Identifier>
  </a:PostalCode>
</a:Address>
```

## 2.7 Data Types

Version 2.0 did not specify strong data types for text nodes and attribute values and hence, was ambiguous for implementers. This resulted in interoperability problems and additional data transformation work. All elements and attributes in version 3.0 are strongly data typed.

## 2.8 Namespace

Version 3 allows for attributes from other namespaces to reside under any element, but disallows elements from other namespaces as in the following example.

```
<a:Contacts xmlns:a="urn:acme.org:corporate:contacts"
xmlns:b="urn:acme.org:corporate:IDs" xmlns:xnl="urn:oasis:names:tc:ciq:xnl:3">
  <xnl:PartyName b:CustomerID="123445" xnl:DataQuality="Valid">
    <xnl:PersonName>
      <xnl:NameElement>John Johnson</xnl:NameElement>
    </xnl:PersonName>
  </xnl:PartyName>
  <xnl:PartyName b:SupplierID="43589304" b:CustomerID="83453485">
    <xnl:OrganisationName>
      <xnl:NameElement>Universal Stuff Ltd.</xnl:NameElement>
    </xnl:OrganisationName>
  </xnl:PartyName>
</a:Contacts>
```

All elements in the CIQ Specifications are extensible allowing for any number of attributes from a non-target namespace to be added.

All elements share the same declaration:

```
<xs:anyAttribute namespace="##other" processContents="lax"/>
```

This specification mandates that an application should not fail if it encounters an attribute from a non-target namespace. The application may choose to ignore or remove the attribute.



## 2.9 Elements and Attributes

With version 2.0, there was always ambiguity in placing elements and attributes because of the ability to use same elements and attributes in various places of the schema structure and xAL is a classical example of this. For example, “ThoroughfareName”, could be used under “Country”, “AdministrativeArea”, “SubAdministrativeArea”, “Locality”, “SubLocality”, “Thoroughfare”, or “SubThoroughfare” structures in the schema due to the hierarchical nature of address structures.

This ambiguity has been avoided in version 3.0 by flattening the structure.

Locally declared elements and attributes in version 3.0 do not have parent’s name as part of its own name as it was the case it version 2.0.

## 2.10 Preservation of the Original Order

Order of name or address elements occurring in the original data should be preserved for correct presentation.

If an application needs to present the name to a user it may not always be aware about the correct order of the elements if the semantics of the name elements are not available. Version 3.0 supports the order of presentation in xNL and xAL.

### 2.10.1 Example – normal order

Mr Jeremy Apatuta Johnson PhD

could be presented as follows in version 3.0

```
<n:PartyName>
  <n:PersonName>
    <n:NameElement>Mr</n:NameElement>
    <n:NameElement>Jeremy</n:NameElement>
    <n:NameElement>Apatuta</n:NameElement>
    <n:NameElement>Johnson</n:NameElement>
    <n:NameElement>PhD</n:NameElement>
  </n:PersonName>
</n:PartyName>
```

and restored back to *Mr Jeremy Apatuta Johnson PhD* during data formatting exercise.

Any other order of *NameElement* tags in the XML fragment could lead to an incorrect presentation of the name.

## 2.11 xLink to define Relationships

xLink provides a set of attributes that can be reused within other namespaces. The meaning and usage of those attributes are well defined in the xLink specification from W3C. Version 3.0 of CIQ TC specifications uses xLink to define relationships between two parties. By incorporating xLink, the CIQ TC specifications have been significantly simplified for defining relationships between entities (e.g. more than one party)

However, support for relationships through key references is also available as an option.

## 2.12 Code List/Enumerations Support to customise CIQ Schemas to support application specific requirements

Version 3.0 supports for extensive use of code lists enumerations for flexibility in the way the schemas can be used. This enables adopters of the schemas to adjust the schemas for their specific needs without affecting the actual structure. Let us consider the following example:

## 2.12.1 Example

Professor Dr. Paruvachi Ammasai Venkatachalam PhD

The above name is of Indian origin. This name in Anglo Saxon culture is represented as follows:

```
<n:PartyName>
  <n:PersonName>
    <n:NameElement Type="PrecedingTitle">Professor</n:NameElement>
    <n:NameElement Type="Title">Dr</n:NameElement>
    <n:NameElement Type="GivenName">Paruvachi</n:NameElement>
    <n:NameElement Type="MiddleName">Ammasai</n:NameElement>
    <n:NameElement Type="FamilyName">Venkatachalam</n:NameElement>
    <n:NameElement Type="Suffix">PhD</n:NameElement>
  </n:PersonName>
</n:PartyName>
```

Version 3.0 provides the ability for the implementers to define the type of names as enumerations and in the above example, the enumeration values for *NameElement* are: *PrecedingTitle*, *Title*, *GivenName*, *MiddleName* and *FamilyName*. These values are provided with the schema.

If the above name had to be represented in its native Indian culture (applicable to southern part of India only), it would be represented as per the following example:

```
<n:PartyName>
  <n:PersonName>
    <n:NameElement Type="PositionTitle">Professor</n:NameElement>
    <n:NameElement Type="EducationTitle">Dr</n:NameElement>
    <n:NameElement Type="NativePlaceName">Paruvachi</n:NameElement>
    <n:NameElement Type="FatherName">Ammasai</n:NameElement>
    <n:NameElement Type="ActualName">Venkatachalam</n:NameElement>
    <n:NameElement Type="Degree">PhD</n:NameElement>
  </n:PersonName>
</n:PartyName>
```

The implementers can add the enumeration list (in this case, *PositionTitle*, *EducationTitle*, *NativePlaceName*, *FatherName*, *ActualName*, and *Degree*) without impacting the structure of the schema.

However, it is important that the code lists/enumeration list has to be agreed by the parties involved to achieve interoperability. Moreover, these lists have to be managed / governed else, any change to the list without the knowledge of the other parties involved in the exchange will break interoperability.

Two ways of customising code lists/enumerations is provided. One approach is representing the code lists as XML schema and including them as part of the CIQ Specification entity schemas namely, Name, Party, and Address. The other approach is representing the code lists in genericcode format defined by OASIS Codelist technical committee.

## 2.13 Customising CIQ Schemas to meet application specific requirements

Version 3.0 supports customisation of CIQ entity schemas (Party, Name and Address) without having to modify the base schemas. Customisation can be achieved using enumeration list approach (two options provided, see section above) or by using the UMCLVV (Option 2 of Code List) to customise the CIQ base entity schemas using Schematron language without touching or modifying the base schemas. Schematron is an ISO based powerful and yet simple assertion based rule language that can be used to apply constraint rules on XML schemas.

## 2.14 Data Quality Metrics

One of the key aims of the CIQ (Customer **Information Quality**) TC is to enable representation and exchange of quality party information. The CIQ TC is of the strong view that data quality plays a significant role in interoperability. The quality of any information management/processing system is only as good as the quality of the data it processes/stores/manages. No matter how efficient the

interoperability of data is, if the quality of data that is interoperated is poor, the business benefit arising out of the information processing system is expected to be poor.

We at OASIS CIQ TC strongly believe in the following “Data Interoperability Success Formula”:

***Data Interoperability = Open Data Architecture + Data Integration + Data Quality + Open Data Standards + Data Semantics + Data Security + Data Governance***

All components on the right hand side of the above formula are important for successful data interoperability. CIQ specifications have been designed with the above formula in mind.

For the first time since the CIQ TC's inception in 2000, version 3.0 of the CIQ TC specifications have concentrated on introducing simple data quality metrics to the data it represents. The specifications allows for data quality information to be provided as part of the entity using attribute *DataQuality* that can be set to either “Valid” or “Invalid”, if such status is known. If *DataQuality* attribute is omitted it is presumed that the validity of the data is unknown.

*DataQuality* attribute refers to the content of a container, e.g. *PersonName*, asserting that all the values are known to be true and correct. This specification has no provision for partial data quality where some parts of the content are correct and some are not or unknown.

### 2.14.1 Example – Data Quality

```
<n:PersonName n:DataQuality="Valid">
  <n:NameElement>John Anthony Jackson</n:NameElement>
</n:PersonName>
```

In this example *John Anthony Jackson* is known to be the true and correct value asserted by the sender of this data.

This feature allows the recipient of data to get an understanding of the quality of data they are receiving and assists them to take appropriate measures to handle the data according to its quality.

## 2.15 Address/Location Coordinates

Address specification provides options to use coordinates to map the location of the address. This is done by either using GeoRSS industry standard from Open Geospatial Consortium. Option is also provided to use some basic coordinates information.

## 2.16 Examples

Version 3.0 provides many more international address examples (covering most of the countries) than version 2.0 in “*xal-international.xml*” file.

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## A. Acknowledgements

The following individuals have participated in the creation of version 3.0 of CIQ specifications and are gratefully acknowledged:

### Participants:

Colin Wallis	New Zealand Government	Voting Member, CIQ TC
David Webber	Individual	Voting Member, CIQ TC
Fulton Wilcox	Colts Neck Solutions LLC	Voting Member, CIQ TC
Graham Lobsey	Individual	Voting Member, CIQ TC
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John Glaubitz	Vertex, Inc	Voting Member, CIQ TC
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Max Voskob	Individual	Former Member, CIQ TC
Robert James	Individual	Former Member, CIQ TC

OASIS CIQ Technical Committee (TC) sincerely thanks the public (this includes other standard groups, organizations and end users) for their continuous feedback and support that helps the TC to work toward improving the CIQ specifications.

Special thanks to Mr.Ken Holman, Chair of OASIS Code List TC ([http://www.oasis-open.org/committees/tc\\_home.php?wg\\_abbrev=codelist](http://www.oasis-open.org/committees/tc_home.php?wg_abbrev=codelist)) for his support, guidance and genericode implementation assistance to the TC in releasing the OASIS Code List version of CIQ V3.0 XML Schemas.

Special thanks to Mr.Hugh Wallis, Director of Standards Development of extensible Business Reporting Language (xBRL) International Standards Group (<http://www.xbrl.org>) for working closely with the CIQ TC in jointly implementing W3C xLink specification that is now used by both xBRL and CIQ Specifications to enable interoperability between the two specifications.

Special thanks to Mr.Carl Reed, Chief Technology Officer of Open Geospatial Consortium (OGC – <http://www.opengeospatial.org>) for his guidance and assistance to the TC in referencing the work of OGC on GeoRSS and Geo-Coordinates for addresses/locations as part of CIQ Address Specifications.

OASIS CIQ TC also acknowledges the contributions from other former members of the TC since its inception in 2000.

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## B. Intellectual Property Rights, Patents, Licenses and Royalties

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### <sup>1</sup>**xAL-AustralianAddresses.xml**

Address examples come from AS/NZ 4819:2003 standard of Standards Australia and are subject to copyright

### <sup>2</sup>**xAL-InternationalAddresses.xml**

Address examples come from a variety of sources including Universal Postal Union (UPU) website and the UPU address examples are subject to copyright.

### **xLink-2003-12-31.xsd**

This schema was provided by the xBRL group in December 2006.

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## C. Revision History

Revision	Date	Editor	Changes Made
V3.0 PRD 01	13 April 2006	Ram Kumar and Max Voskob	Prepared 60 days public review draft from Committee Draft 01
V3.0 PRD 02	15 June 2007	Ram Kumar	Prepared second round of 60 days public review draft from Committee Draft 02 by including all public review comments from PRD 01. Also included is implementation of OASIS Code list specification
V3.0 PRD 02 R1	18 September 2007	Ram Kumar	Inclusion of comments from Public Review 02
V3.0	15 November 2007	Ram Kumar	Final Version
V3.0 CS02	20 September 2008	Ram Kumar	Final Version