

## Exchange Network Guidance Document Metadata

**Title:** Namespace Organization, Naming and Schema File Location version 1.11

**Subject:** This document establishes new guidelines for declaring namespaces in XML schema and instance files on the Exchange Network.

### Abstract:

This document was produced to revise prior guidelines for XML namespaces. Previous guidelines called for the use of URN-formatted namespaces on the Exchange network. This convention was not regularly followed by schema developers. The new namespace guidelines contained in this document are a better fit with planned Exchange Network activities including versioning and repository modification.

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**Contributors:** The members of the Network Technology Group (NTG) have contributed greatly to the evolution and final form of the document.

**Initiator:** Network Technology Group (NTG)

**Version:** Version 1.11

**Version History:**

Version .91 Made available for public comment on Exchange Network Discussion area 7/13/05

Version 1.02 Presented to NTG at Las Vegas face-to-face meeting 12/1/2005

Version 1.03 Minor grammatical revisions

Version 1.04 Revisions based upon NTG group feedback from Las Vegas meeting

Version 1.05 Minor revisions based upon final NTG comments

Version 1.06 Minor revisions based upon NTG comments

Version 1.07 Revisions based upon NTG Comments

- Section 5 Changed to implementation
- Requirement for one-to-one relationship between namespace and root schema changed to recommendation

Version 1.08 Revisions based upon NTG comments

- Requirement for one-to-one relationship between namespace and root schema changed to requirement
- Changes to namespace guidelines for Shared Schema Components
- Grammar changes

Version 1.09 Revisions based upon NTG comments

- Changes to versioning and repository location guidelines for SSCs

Version 1.10 Revisions based upon NTG comments

- Changes to versioning guidelines for SSCs
- Version 1.11 Revisions based upon NTG comments
- Removal of minor version from the namespace string

**Revision Date:** March 6, 2006

**Commission Date:** November 24, 2004

### **Relationships to Other Products:**

The guidelines will require updates to:

XML Design Rules and Conventions v 1.0

[http://www.exchangenetwork.net/dev\\_schema/xml\\_drc\\_section2.pdf](http://www.exchangenetwork.net/dev_schema/xml_drc_section2.pdf)

2.4-1 - 2.4-2 (p 29-30)

Change requirement from URN to URL-formatted namespace.

URL-formatted namespaces on EN must resolve to a valid web address

2.4-5 - 2.4-7, 2.4-9 (p 33-35,37)

Example should be changed to URL-formatted namespace

2.4-13 (p 42)

SD4-28/SD4-29 Must be removed. New rules should be added to comply with namespace guidelines contained in this report.

2.5-11 (p 59)

EN Schema Versioning Section should have guidance and rules added to include versioning guidance in namespace document

A-9 (p 105)

SD4-23/SD4-24/SD4-28/SD4-29 should be examined and, if appropriate, modified to comply with new namespace guidelines

Shared Schema Components Usage Guide v. *Last Call Working Draft*

<http://www.exchangenetwork.net/registry/SharedSchemaComponents-UsageGuide.pdf>

4.2.1.1 (p 17)

Remove fixed namespace for Shared Schema Components

4.3.1, 4.3.2, 4.3.3, 4.3.4, 4.3.5, 4.3.6, 4.3.7, 4.3.8, 4.3.9 (p 19,21, 24-25, 27, 29-30, 31, 35-36, 38-39, 41-42)

Examples should be changed to reflect section 5.1.3 and 5.3 of Namespace Recommendation

5.1 - 5.10 (44-54)

Examples schemas should be changed to URL-formatted namespace and reflect section 5.1.3 and 5.3 of Namespace Recommendation

Shared Schema Components Technical Reference v. *Last Call Working Draft*

<http://www.exchangenetwork.net/registry/SchemaSchemaComponents-TechnicalReference.pdf>

*All pages*

Examples should be changed to reflect section 5.1.3 and 5.3 of Namespace Recommendation

The Shared Schema Components will have to be updated in accordance with recommendations in document.

After approval of namespace recommendation, the EN interim repository will require changes to its directory structure to allow URL-formatted namespaces to resolve to a published server location.

Schema file versioning must use major and minor version number. Schemas must be placed into a new directory named with the corresponding version number every time they are updated.

### **Review Process:**

First Draft Review: July 13, 2005 – November 30, 2005

Second Draft Review: December 1-2, 2005

V1.10 Final Review: December 4 – January 12, 2006

V1.11 Final Review: February 9 – March 9, 2006

### **Reviewers:**

First Draft Review – Posted for comments on EN message board

Second Draft Review – NTG

V1.10 Final Review – NTG

V1.11 Final Review – NTG

### **Comments:**

Major Category of comments related to URL vs. URN-formatted namespaces. Comments on later drafts were related to development implications of using root schemas and requirement for one-to-one relationship between namespaces and root schemas.

Other comments were received questioning impact of all Shared Schema Components declaring the same namespace.

Following issuance of V1.10, comments were received that suggested removing minor version number from the namespace string.

### **Comments Resolution Process:**

Draft revisions were rewritten to incorporate substantive comments and distributed to NTG for follow-up.

Comments received on V1.10 resulted in changes approved in V1.11.

## **Pros and Cons:**

The decision on Network Namespaces, and therefore this document, is considered to be a necessary part of the continued evolution of the Exchange Network. Beyond this, no pros or cons were identified.

## **Follow-up Activities:**

XML schema developers will update schema namespaces in next major business-driven revision cycle.

Shared schema components will be updated to comply with namespace recommendations as soon as possible.

Design Rules and Conventions and Shared Schema Components guidance documents should be updated to reflect new namespace guidelines.

Network repository will require restructuring to accommodate new namespace guidelines. Existing repository located at [www.exchangenetwork.net/registry](http://www.exchangenetwork.net/registry) will be frozen. New repository will be located at [www.exchangenetwork.net/schema](http://www.exchangenetwork.net/schema).

The old repository will no longer be available for browsing at [www.exchangenetwork.net/schema](http://www.exchangenetwork.net/schema). The URL for browsing the old repository will be changed to [www.exchangenetwork.net/old\\_repository/schema](http://www.exchangenetwork.net/old_repository/schema). The new repository, all new schema, will be available for browsing at [www.exchangenetwork.net/repository/schema](http://www.exchangenetwork.net/repository/schema).

Reference Guides will require updates to reflect new namespace guidance.

Use-case scenarios drafted by Yunhao Zhang should be distributed via EN website or email distribution to schema developers.

## **Actions Required to Complete and Communicate Document:**

An Exchange Network Alert should be used to communicate update of namespace guidelines on Exchange Network.