



INFORMATION TECHNOLOGY
Value / Knowledge / Solutions

S42

INTERNATIONAL POSTAL ADDRESS COMPONENTS AND TEMPLATES

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GROUP1 CONFERENCE
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Overview

1. What is a Standard
2. Background on Universal Postal Union
3. UPU S42 Standard
4. UPU P14 Standard
5. Next Steps



What Is A Standard

The British Standards Institute describes a standard as:

"a published specification that establishes a common language, and contains a technical specification or other precise criteria and is designed to be used consistently, as a rule, a guideline, or a definition".



Universal Postal Union

- ◆ Established in 1874, the Universal Postal Union (UPU) is the second oldest international organization after the International Telecommunications Union.
- ◆ The UPU is the primary forum for cooperation between postal services and helps to ensure a truly universal network of products and services.



UPU Standards Board

The UPU's Standards Board develops and maintains a growing number of technical standards and electronic data interchange (EDI) message specifications to improve the exchange of postal-related information between Posts, and promotes the compatibility of UPU and international postal initiatives.



Key Participants on the Standards Board

- ◆ UPU POST*Code project team
- ◆ Experts from all participating Posts
- ◆ Experts from the industry
- ◆ European CEN Technical Committee 331
- ◆ UPU DMAB Address Management Project team
- ◆ USPS International Address Template Working Group (IATWG)
- ◆ IDEAlliance Address Data Interchange Specification Working Group



UPU International Address Standard S42

S42 Standard consists of three major concepts:

- Elements
- Templates
- Rendition Instructions



S42 Elements

The Standard is based upon a comprehensive list of name and address elements originally developed by the Center for European Normalization (CEN).

The elements define the smallest meaningful parts of names and addresses.



Why this solution?

We chose parsed address elements because of the way the world posts tend to maintain their address information. It was a good way to solve the issues around address quality, validity and rendition.

Parsed elements also offered solutions to the problem of how to store multinational addresses in one database.

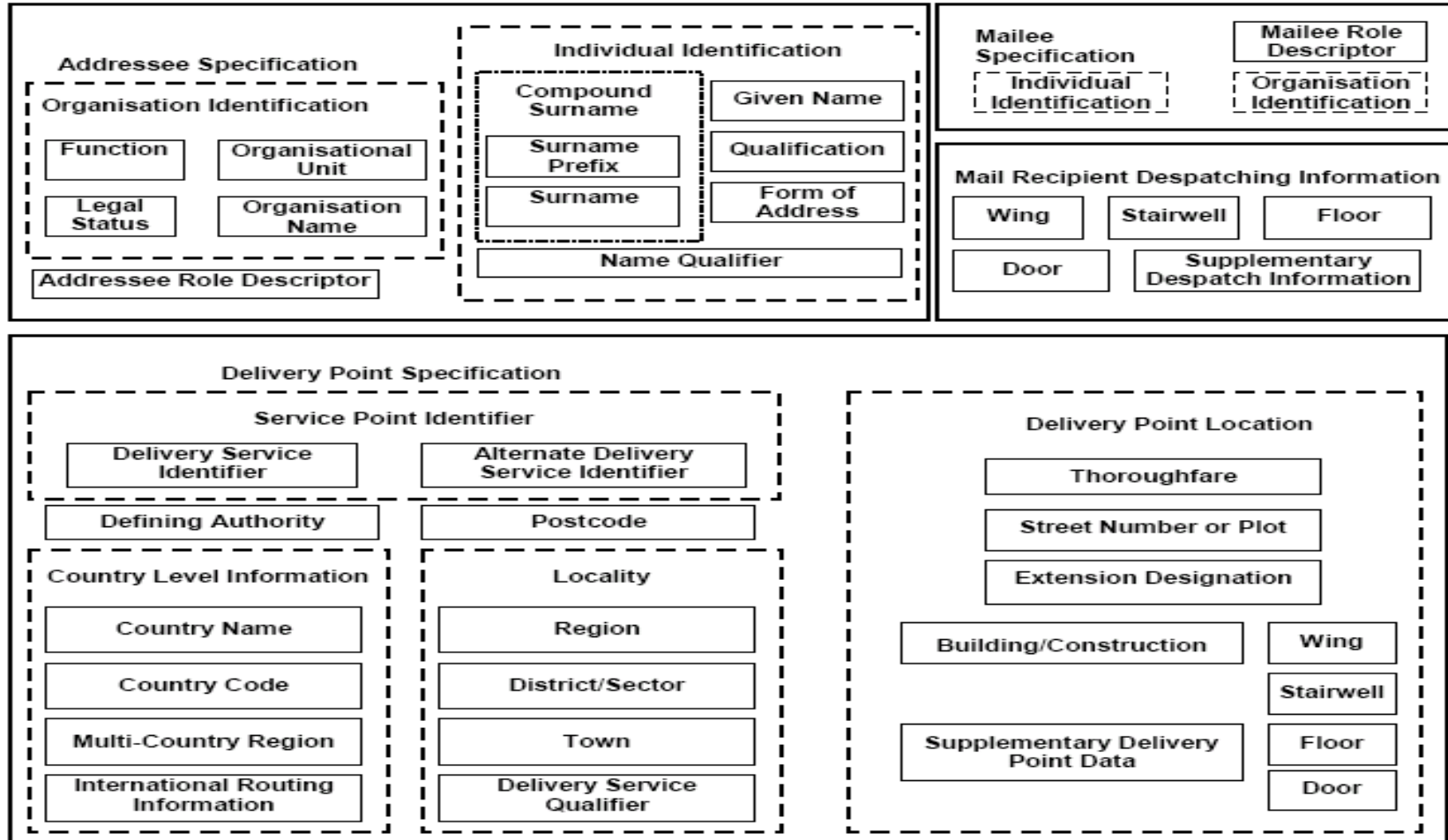


Why Use S42?

- ◆ Address logic can be built into existing software
- ◆ The use of the S42 standard benefits foreign mail being sent out of the country as well as in bound mail from other countries.
- ◆ Keep all addresses in one database, both domestic and foreign
- ◆ Improve overall address quality



S42 Chart of Elements and Constructs



(3) Postal Address Components



The First Level Identifiers

- 10 Addressee specification segment
- 20 Mailee specification segment
- 30 Recipient despatching information segment
- 40 Delivery point specification segment



Second Level Identifiers

- ◆ 00 organisation name
- ◆ 01 legal status
- ◆ 02 organisational unit
- ◆ 03 function
- ◆ 04 addressee role descriptor
- ◆ 05 form of address
- ◆ 06 given name
- ◆ 07 surname prefix
- ◆ 08 surname
- ◆ 09 name qualifier
- ◆ 10 qualification
- ◆ 11 mailee role descriptor
- ◆ 12 defining authority
- ◆ 13 postcode
- ◆ 14 country name
- ◆ 15 region
- ◆ 16 town
- ◆ 17 district/sector
- ◆ 19 delivery service identifier
- ◆ 20 alternate delivery service identifier
- ◆ 21 thoroughfare
- ◆ 24 street number or plot
- ◆ 26 building/construction
- ◆ 28 extension designation
- ◆ 29 wing
- ◆ 30 stairwell
- ◆ 31 floor
- ◆ 32 door
- ◆ 33 supplementary despatch information
- ◆ 34 supplementary delivery point data
- ◆ 35 delivery service qualifier
- ◆ 41 country code
- ◆ 43 multi-country region
- ◆ 44 international routing information



Address Template

The template is a map of where specific address elements should occur in the delivery address to insure delivery in the most economical and automation compatible fashion for the destination post.

As the world posts have independently developed addressing methodologies (some based upon the methods of colonizing countries) it is not possible to develop a single standard output format for addressing a mail piece that works all around the world.



Basis for US Template

The USPS Publication 28 example of address line order and content served as the example for the ordering of the isolated elements into the address lines or constructs in the US.



Template Development

Countries are using similar internal standards where they exist for developing their own templates.

Some countries who have not, yet, formalized their preferences will no doubt be using examples set by early adopting countries to help them formalize addressing standards and templates.



Templates Under Development

- ◆ Australia
- ◆ Brazil
- ◆ Canada
- ◆ Czech Republic
- ◆ Chile
- ◆ Denmark
- ◆ Finland
- ◆ France
- ◆ Germany
- ◆ Great Britain
- ◆ Japan
- ◆ Morocco (Arabic and French)
- ◆ Netherlands
- ◆ New Zealand
- ◆ Portugal
- ◆ South Africa
- ◆ Sweden
- ◆ United States of America
- ◆ Venezuela



US Address Template Order

<u>LINE/CONSTRUCT</u>	<u>CONTAINS</u>
Mailstop	30.33
Addressee	10.11, 10.05,10.06-0-1,10.06-0-2, 10.06-0-3, 10.08, 10.09, 10.10
Mailee	20.11, 20.05, 20.06-0-1, 20.06-0-2, 20.06-0-3, 20.08, 20.09, 20.10
Title	10.04, 10.03 OR 20.11, 20.03
Department/Division	10.02
Organization	10.00
Urbanization	40.17
RR/Military Address or	40.21, 40.19, 40.35
PO Box Address or	40.19, 40.20
Street Address	40.24, 40.21-1-3, 40.21-1-1, 40.21-1-2, 40.21-2-3, 40.32-0-1, 40.32-0-2
City/State/ZIP	40.16, 40.15, 40.13-0-1, 40.13-0-2



US - Puerto Rico Street Example

LINE/CONSTRUCT

Addressee	SENIOR JUAN CASTILE RODRIGUEZ
Urbanization	SAN JOAQUIN
Street Address	38 CALLE A RODRIGUEZ
City/State/ZIP	ADJUNTA PR 00601-2302



German Address Example

LINE/CONSTRUCT

Addressee

Herr Frank Zander

Organization

Institut für Qualität in der Medizin

Street Address

Aachener Straße 233-237

Postcode/City

50931 Köln



Venezuelan Address Example

LINE/CONSTRUCT

Title	PRESIDENT
Organization	INDUSTRIA VENEZOLANA DE ALIMENTOS
Street Address	APARTADO POSTAL N° 1761
Building	PLAZA LAS AMÉRICAS
City/Postcode/District	CARACAS 1061-A DISTRITO CAPITAL



Australian Address Example

LINE/CONSTRUCT

Addressee

Mrs Emma Farmer

Door

Suite 2

Street Address

79 BOARDMAN RD

City/State/Postcode

KIPPA-RING QLD 6302



Templates Do Not Stand Alone

As you probably noticed in my earlier examples, there is more to creating a mail piece than just knowing the order in which elements appear on a line.



Rendition Instructions

Rendition Instructions govern "the production of addresses" on an output medium such as an address label or a computer display screen.



Rendition Instruction Examples

- State abbreviation should be used
- State abbreviation should be capitalized
- Two spaces recommended after State
- Hyphen needed between parts of ZIP Code
- Hyphen only permitted if both parts present
- Result: “Chicago IL 60625-3806”



Rendition Instructions Expressed in PATDL

The language used to express rendition instructions is the Postal Address Data Template Language (PATDL).

PATDL and XML are utilized by the UPU Standard P14 to transmit and assemble for mailing purposes the S42 parsed address data. Discussions will be ongoing about developing an EDI version of this standard as well.



Next Steps

- ◆ Add data from other countries
- ◆ Continue the testing process
- ◆ Assist other countries as requested with addressing issues
- ◆ Continue to integrate the templates into software
- ◆ Market in other countries
- ◆ Develop additional implementation engines



Interested?

If you would be interested in participating in the International Address Template Work Group?

- ◆ Contact Ruth Jones: Ruth.Jones@USPS.GOV

If you have an interest in UPU standards:

- ◆ http://www.upu.int/standards/catalogue_of_upu_standards.pdf

