Civic Location Format Extension for Utility and Lamp Post Numbers
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Abstract

This document describes an extension to civic location format and adds two new CAtypes: PN (pole number) and MP (milepost). Pole Numbers are used on poles such as lamp posts or utility poles, and can be used in some circumstances as location information. Mileposts are numeric values measured from an end of a trail, road, railway line or other feature.

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1. Introduction

In some areas, utility and lamp posts carry a unique identifier, which we call a pole number in this document. In some countries, the label on the lamp post also carries the local emergency service number, such as "110", encouraging callers to use the pole number to identify their location.

![Lamp post with emergency number.

On some roads, and many trails, railroad rights of way and other linear features, a post with a mile or kilometer distance from one end of the feature may be found (a "milepost"). There are other cases of poles or markers with numeric indications that are not the same as a "house number" or street address number.

In this document, we define an extension of the civic address format defined in [RFC4119] updated by [RFC5139] to carry such pole number and milepost information.

2. Terminology Used in This Document

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this
document are to be interpreted as described in [RFC2119].

3. Pole Number and Milepost

[RFC4776] and [RFC5139] provides a full set of parameters that may be used to describe a civic location.

This document describes two new CAtypes, PN (pole number), which is used to support post numbers, and MP (milepost), which is used to support mileposts. The pole number can consist of any combination of letters and digits. Punctuation characters and embedded spaces are ignored; lower and upper case letters are treated as equivalent. Mileposts are traditionally mile or kilometer distances from one end of the feature, but the field may contain any combination of letters, digits and punctuation characters. There could be country specific considerations for PN or MP use, but none are described in this document.

<table>
<thead>
<tr>
<th>CAtype</th>
<th>PIDF</th>
<th>Description</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>43</td>
<td>PN</td>
<td>lamp post number</td>
<td>A12101S</td>
</tr>
<tr>
<td>44</td>
<td>MP</td>
<td>Milepost</td>
<td>102.4</td>
</tr>
</tbody>
</table>

Table 1: New Civic PIDF-LO Types

4. Examples
  <country>CN</country>
  <A1>GD</A1>
  <A3>Shenzhen</A3>
  <A4>Bantian</A4>
  <RD>Wuhe</RD>
  <LMK>Bai Cao Yuan</LMK>
  <LOC>Front Gate</LOC>
  <NAM>Video Rental Store</NAM>
  <PC>518129</PC>
  <PN>2121014</PN>
</civicAddress>

  <country>US</country>
  <A1>PA</A1>
  <A3>Hopewell</A3>
  <RD>Baker Trail</RD>
  <MP>11.4</MP>
</civicAddress>

5. Security Considerations

The security considerations of [RFC4119] is relevant to this document. No new security considerations arise as a result of these new fields.

6. IANA Considerations

6.1. CAtype Registry Update

This document updates the CAtype registry established by [RFC4776]. Two entries are defined, with values as indicated in Table 1.

7. References

7.1. Normative References


7.2. Informative References


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