

# Wisconsin Department of Safety and Professional Services

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## INDUSTRY SERVICES DIVISION

### DSPS Building Permit System Application Programming Interface (API) v2.0

IT third party systems like "IWorq" or "Safebuilt" can connect to DSPS Building Permit System by using Web Service. This method allows setting up an electronic transfer of permits between diverse IT systems. Below is the Web Services Description Language (WSDL) for the Permit System:

#### Web Service WSDL

```
<?xml version="1.0" encoding="UTF-8"?>
- <wsdl:definitions xmlns:wsam="http://www.w3.org/2007/05/addressing/metadata" xmlns:wsa10="http://www.w3.org/2005/08/addressing"
xmlns:wsp="http://schemas.xmlsoap.org/ws/2004/09/policy" xmlns:msec="http://schemas.microsoft.com/ws/2005/12/wsdl/contract"
xmlns:wsaw="http://www.w3.org/2006/05/addressing/wsdl" xmlns:wsap="http://schemas.xmlsoap.org/ws/2004/08/addressing/policy"
xmlns:wsx="http://schemas.xmlsoap.org/ws/2004/09/mex" xmlns:wsa="http://schemas.xmlsoap.org/ws/2004/08/addressing" xmlns:tns="http://tempuri.org/"
xmlns:soap12="http://schemas.xmlsoap.org/wsdl/soap12/" xmlns:soap="http://schemas.xmlsoap.org/wsdl/soap/" xmlns:wsu="http://docs.oasis-
open.org/wss/2004/01/oasis-200401-wss-wssecurity-utility-1.0.xsd" xmlns:soapenc="http://schemas.xmlsoap.org/soap/encoding/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:wsdl="http://schemas.xmlsoap.org/wsdl/" targetNamespace="http://tempuri.org/" name="PermitUploader">
- <wsp:Policy wsu:Id="BasicHttpBinding_IPermitUploader_policy">
- <wsp:ExactlyOne>
- <wsp:All>
- <sp:TransportBinding xmlns:sp="http://schemas.xmlsoap.org/ws/2005/07/securitypolicy">
- <wsp:Policy>
- <sp:TransportToken>
- <wsp:Policy>
<sp:HttpsToken RequireClientCertificate="false"/>
</wsp:Policy>
</sp:TransportToken>
- <sp:AlgorithmSuite>
- <wsp:Policy>
<sp:Basic256/>
</wsp:Policy>
</sp:AlgorithmSuite>
- <sp:Layout>
- <wsp:Policy>
<sp:Strict/>
</wsp:Policy>
</sp:Layout>
</wsp:Policy>
</sp:TransportBinding>
</wsp:All>
</wsp:ExactlyOne>
</wsp:Policy>
..
```

```

- <wsdl:types>
  - <xsd:schema targetNamespace="http://tempuri.org/Imports">
    <xsd:import namespace="http://tempuri.org/" schemaLocation="https://dpsapps.wi.gov/buildingpermit/service/PermitUploader.svc?xsd=xsd0"/>
    <xsd:import namespace="http://schemas.microsoft.com/2003/10/Serialization/"
      schemaLocation="https://dpsapps.wi.gov/buildingpermit/service/PermitUploader.svc?xsd=xsd1"/>
  </xsd:schema>
</wsdl:types>
- <wsdl:message name="IPermitUploader_Submit_InputMessage">
  <wsdl:part name="parameters" element="tns:Submit"/>
</wsdl:message>
- <wsdl:message name="IPermitUploader_Submit_OutputMessage">
  <wsdl:part name="parameters" element="tns:SubmitResponse"/>
</wsdl:message>
- <wsdl:portType name="IPermitUploader">
  - <wsdl:operation name="Submit">
    <wsdl:input message="tns:IPermitUploader_Submit_InputMessage" wsaw:Action="http://tempuri.org/IPermitUploader/Submit"/>
    <wsdl:output message="tns:IPermitUploader_Submit_OutputMessage" wsaw:Action="http://tempuri.org/IPermitUploader/SubmitResponse"/>
  </wsdl:operation>
</wsdl:portType>
- <wsdl:binding name="BasicHttpBinding_IPermitUploader" type="tns:IPermitUploader">
  <wsp:PolicyReference URI="#BasicHttpBinding_IPermitUploader_policy"/>
  <soap:binding transport="http://schemas.xmlsoap.org/soap/http"/>
  - <wsdl:operation name="Submit">
    <soap:operation style="document" soapAction="http://tempuri.org/IPermitUploader/Submit"/>
    - <wsdl:input>
      <soap:body use="literal"/>
    </wsdl:input>
    - <wsdl:output>
      <soap:body use="literal"/>
    </wsdl:output>
  </wsdl:operation>
</wsdl:binding>
- <wsdl:service name="PermitUploader">
  - <wsdl:port name="BasicHttpBinding_IPermitUploader" binding="tns:BasicHttpBinding_IPermitUploader">
    <soap:address location="https://dpsapps.wi.gov/buildingpermit/service/PermitUploader.svc"/>
  </wsdl:port>
</wsdl:service>
</wsdl:definitions>

```

From the listed WSDL, you can reference the availability of the web method “Submit”:

```
string Submit(string muniAccessKey, string permitData)
```

This web method takes two input parameters of literal/string data types and returns value of literal/string data type.

#### Input Parameters:

- **MuniAccessKey** is a unique identifier and will be given to the Municipality upon finishing the onboarding process with DSPS.

- **PermitData** is a “|” piped delimited literal/string of permit record. The following are the expected columns in the specified order (*The fields marked with \* are required in a permit upload attempt*):

1. Application No.
2. Parcel No.
3. Permit Requested (1=Constr, 2=HVAC, 3=Electric, 4=Plumbing, 5=Erosion Control, 6=Other) (\*)
4. Owner's Name (\*)
5. Owner's Street Address (\*)
6. Owner's City (\*)
7. Owner's Zip Code (\*)
8. Owner's Email (\*)
9. Owner's Telephone No. (Format: xxx-xxx-xxxx) (\*)
10. Dwelling Contractor's Name (\*)
11. Dwelling Contractor's License/Certification No. (\*)
12. Dwelling Contractor's License/Certification No. Exp Date (Format: mm/dd/yyyy) (\*)
13. Dwelling Contractor's Street Address
14. Dwelling Contractor's City
15. Dwelling Contractor's Zipcode
16. Dwelling Contractor's Telephone No. (Format: xxx-xxx-xxxx)
17. Dwelling Contractor's Email
18. Dwelling Contractor's Qualifier Name (\*)
19. Dwelling Contractor Qualifier's License/Certification No. (\*)
20. Dwelling Contractor Qualifier's License/Certification No. Exp Date (Format: mm/dd/yyyy) (\*)
21. Dwelling Contractor Qualifier City
22. Dwelling Contractor Qualifier ZipCode
23. Dwelling Contractor Qualifier Telephone No. (Format: xxx-xxx-xxxx)
24. Dwelling Contractor Qualifier Email
25. HVAC Name
26. HVAC License/Certification No.
27. HVAC License/Certification Exp Date (Format: mm/dd/yyyy)
28. HVAC Street Address
29. HVAC City
30. HVAC Zipcode
31. HVAC Telephone No. (Format: xxx-xxx-xxxx)
32. HVAC Email
33. Electrical Name
34. Electrical License/Certification No.
35. Electrical License/Certification No. Exp Date (Format: mm/dd/yyyy)
36. Electrical Street Address
37. Electrical City
38. Electrical Zipcode
39. Electrical Telephone No. (Format: xxx-xxx-xxxx)
40. Electrical Email
41. Master Electrician Name
42. Master Electrician License/Certification No.
43. Master Electrician License Expiration Date (Format: mm/dd/yyyy)
44. Master Electrician Street Address
45. Master Electrician City
46. Master Electrician Zipcode (5 digits)
47. Master Electrician Telephone No. (Format: xxx-xxx-xxxx)
48. Master Electrician Email
49. Plumbing Name
50. Plumbing License/Certification No.
51. Plumbing License/Certification No. Exp Date (Format: mm/dd/yyyy)
52. Plumbing Street Address
53. Plumbing City
54. Plumbing Zipcode
55. Plumbing Telephone No. (Format: xxx-xxx-xxxx)
56. Plumbing Email
57. Project Location Lot Area (Sq. ft.)
58. One acre or more of soil will be disturbed (0=No, 1=Yes)
59. Town/Village/City (1=Town, 2=Village, 3=City) TYPE (\*)
60. Town/Village/City NAME (\*)

61. \_ 1/4, \_ 1/4, of Section \_ , T\_N, R\_E/W
62. Building Street Address
63. Building City
64. Building Zipcode
65. County
66. Subdivision Name
67. Lot No.
68. Block. No
69. Zoning District(s)
70. Zoning Permit No.
71. Setbacks: Front (ft.)
72. Setbacks: Rear (ft.)
73. Setbacks: Left (ft.)
74. Setbacks: Right (ft.)
75. Project(1=New, 2=Alteration, 3=Addition, 4=Repair, 5=Raze, 6=Move, 7=Other) (if New (1), no other project should be entered)
76. Unfin. Bsmt Unit 1
77. Unfin. Bsmt Unit 2
78. Unfin. Bsmt Total
79. Living Area Unit 1
80. Living Area Unit 2
81. Living Area Total
82. Garage Unit 1
83. Garage Unit 2
84. Garage Total
85. Deck/Porch Unit 1
86. Deck/Porch Unit 2
87. Deck/Porch Total
88. Totals Unit 1
89. Totals Unit 2
90. Totals All
91. Occupancy(1=Single Family, 2=Two Family, 3=Garage, 4=Other)
92. Construction Type(1=Site Built, 2=Mfd. Per WI UDC, 3=Mfd. Per US HUD)
93. Stories(1=1-Story, 2=2-Story, 3=Plus Basement, 4=Other)
94. Electric Panel Amps
95. Electric(1=Underground, 2=Overhead)
96. Walls(1=Wood Frame, 2=Steel, 3=ICF, 4=Timber/Pole, 5=Other)
97. Use(1=Seasonal, 2=Permanent, 3=Other)
98. HVAC Equipment (1=Furnace, 2=Radiant Basebd, 3=Heat Pump, 4=Boiler, 5=Central AC, 6=Fireplace, 7=Other)
99. Sewer(1=Municipal, 2=Sanitary Permit)
100. Sanitary Permit #
101. Water(1=Municipal, 2=On-Site Well)
102. Nat Gas Space Htg (Yes or No)
103. Nat Gas Water Htg (Yes or No)
104. LP Space Htg (Yes or No)
105. LP Water Htg (Yes or No)
106. Oil Space Htg (Yes or No)
107. Oil Water Htg (Yes or No)
108. Electric Space Htg (Yes or No)
109. Electric Water Htg (Yes or No)
110. Solid Space Htg (Yes or No)
111. Solid Water Htg (Yes or No)
112. Solar Geo Space Htg (Yes or No)
113. Solar Geo Water Htg (Yes or No)
114. Heat Loss (BTU/HR Total Calculated) (Only numbers allowed)
115. Est. Building Cost without Land (\$) (Only numbers allowed)
116. Applicant Name (\*)
117. Applicant Sign Date
118. Applicant is Owner-Occupier (0=No, 1=Yes)
119. Approval Condition Remark
120. Issueing Jurisdiction: Town/Village/City/County/State (1=Town, 2=Village, 3=City, 4=County, 5=State) TYPE (\*)
121. Issueing Jurisdiction: Town/Village/City/County/State NAME (\*)
122. State-Contracted Inspection Agency#:
123. Municipality Number of Dwelling Location (\*)
124. Plan Review Fee (\$)
125. Inspection Fee (\$)

- 126. WI Permit Seal Fee (\$)
- 127. Other Fee (\$)
- 128. Total Fees (\$)
- 129. Permits Issued (1=Construction, 2=HVAC, 3=Electrical, 4=Plumbing, 5=Erosion Control)
- 130. WI Permit Seal Number (Only numbers allowed)
- 131. Permit Issued By: Name (\*)
- 132. Permit Issued By: Date (Format mm-dd-yyyy) (\*)
- 133. Permit Issued By: Telephone (Format: xxx-xxx-xxxx)
- 134. Permit Issued By: Certificate No.
- 135. Building Permit Number

Output Parameter:

Return Value is a “|” piped delimited literal/string indicating either a successful or failed transaction along with the details. In the case of:

- Failed transfer attempt, “false” value in the first column is returned along with the detail message within the second column.
- Successful transfer attempt, “true” value in the first column is returned along with the detail message within the second column.

For testing your connectivity and an electronic transfer of the permit via Web Service, DSPS has created following test Municipality for integration purpose:

Township of Testville with muniAccessKey of "FY4UN18RFF"

*For a production setup, an onboarding step is required with DSPS staff. Please contact the agency at [DPSSBUDCTech@wisconsin.gov](mailto:DPSSBUDCTech@wisconsin.gov) or 608-266-2112 and receive the MuniAccessKey for production environment.*