

Appendix C

NSP Document Type Definitions

C.1 NSP Core Language XML DTD

```
<!ELEMENT nsp (param*,(html|include))>
<!ATTLIST nsp name CDATA #REQUIRED>

<!ELEMENT param EMPTY>
<!ATTLIST param name CDATA #REQUIRED>
<!ATTLIST param type CDATA #REQUIRED>

<!ELEMENT html (head,body)>
<!ELEMENT head (title)>
<!ELEMENT title (#CDATA)>

<!ELEMENT body %Dynamic;>
<!ELEMENT include %Dynamic;>

<!ENTITY % Dynamic "(%dynamic)*">
<!ENTITY % dynamic "#PCDATA | ul |li | table |tr | td | call
| form | object | hidden | submit | input | checkbox
| select | option | code | expression ">

<!ELEMENT ul %Dynamic;>
<!ELEMENT li %Dynamic;>
<!ELEMENT table %Dynamic;>
<!ELEMENT tr %Dynamic;>
<!ELEMENT td %Dynamic;>

<!ELEMENT call (actualparam)+>
```

```
<!ATTLIST call callee CDATA #REQUIRED>

<!ELEMENT actualparam (#PCDATA)>
<!ATTLIST actualparam param CDATA #REQUIRED>

<!ELEMENT form %Dynamic;>
<!ATTLIST form callee CDATA #REQUIRED>

<!ELEMENT object %Dynamic;>
<!ATTLIST object param CDATA #REQUIRED>

<!ELEMENT hidden (#PCDATA)>
<!ATTLIST hidden param CDATA #REQUIRED>

<!ELEMENT submit EMPTY>

<!ELEMENT input EMPTY>
<!ATTLIST input type CDATA #REQUIRED>
<!ATTLIST input param CDATA #REQUIRED>

<!ELEMENT checkbox EMPTY>
<!ATTLIST checkbox param CDATA #REQUIRED>

<!ELEMENT select %Dynamic;>
<!ATTLIST select param CDATA #REQUIRED>
<!ELEMENT option (value,label)>
<!ELEMENT value (#PCDATA)>
<!ELEMENT label (#PCDATA)*>

<!ELEMENT code %Dynamic;>

<!ELEMENT expression (#PCDATA)>
```

C.2 NSP Core User Interface Description Language SGML DTD

```

<!ELEMENT html - - (head,body)>
<!ELEMENT head - - (title)>
<!ELEMENT title - - (#PCDATA)*>
<!ELEMENT body - - %Hypertext>

<!ENTITY % Hypertext "(#PCDATA | ul | table | form)*">

<!ELEMENT ul - - (li)>
<!ELEMENT li - - %Hypertext>

<!ELEMENT table - - (tr)>
<!ELEMENT tr - - (td)>
<!ELEMENT td - - %Hypertext>

<!ELEMENT form - - %Hypertext -(a) -(form) +(INPUT|SELECT)>
<!ATTLIST form action CDATA #REQUIRED>

<!ELEMENT INPUT - - EMPTY>
<!ATTLIST INPUT
TYPE %InputType; #IMPLIED
NAME CDATA #IMPLIED
VALUE CDATA #IMPLIED
CHECKED (CHECKED) #IMPLIED
>

<!ENTITY % InputType "(TEXT | HIDDEN | SUBMIT | CHECKBOX | RADIO)">

<!ELEMENT SELECT - - (OPTION+) -(INPUT|SELECT)>

<!ELEMENT OPTION - - (#PCDATA)*>
<!ATTLIST OPTION VALUE CDATA #IMPLIED>

```

