



## Glossary of TelForm terms

Not definitive - just my quick attempt to cover a range of topics. Please consider alternative sources.

Apache Software Foundation Organisation with publishes mostly Open Source Software. Apache Tomcat Servlet engine from Apache Software Foundation. APIs Application Programming Interface - a collection of code and other documents for a particular programme. Applets Programmes downloaded from the Web and probably run by Browser. Particularly Java code here. Applications Collection of Computer programmes. ASF Apache Software Foundation. atoms Smallest element - here refers to Regular Expression component. Authentication Act of verifying identity. autodata Feature in TelForm which inputs test data when enabled and selected. Basic TelForm Types Page of TelForm datatypes - probably the most common. See datatypes. Bluetooth A standard for short-range radio data interchange used for a wide number of applications. branches Offshoots of a root system or subsequent branches. browser Normally a Web browser -software to render pages. CA See Certificate Authority. cache A store of frequently used objects in computing, such as images by a web browser. Certificate Authorities Organisations trusted as the issuers of authenticated Digital Certificates. Certificate Revocation List System for publishing details of invalidated Digital Certificates. Dated and problematic. chmod Unix-type command to change access privileges. class Unit of Java code. Class Loader Software component in Java Virtual Machine responsible for deciding which Java classes are required and 'installing' them after consulting the Security Manager. classpath Instruction to a Java compiler or Virtual machine giving the location of classes to be used. CLDC See Connected Limited Device Configuration. Client Software used to handle requests and responses between an organisations customers and the Central Office Server. These vary in complexity. Client-Server Commonly used arrangement of network transactions whereby many 'Client' devices and software interact with sophisticated Central Office 'Server' systems. Cocoon A development environment from Apache Software Foundation for producing Server-side web application programmes. Code Compilers Software which takes a computer source or human readable code and converts it to code the computer or virtual machine can execute. Colour Browser GUI used to select colours for use in a system. compressed Process to reduce say data file size, by encoding. Zip and tar are common tools. Connected Limited Device Configuration A format for describing Mobile device capability. See also MIDP. CRL See Certificate Revocation List. CSS Stylesheet Cascading Style-Sheet is a means of controlling the presentation of web pages. Datatype Grouping of information inputs or outputs, such as numbers, decimals, language character group and others. debug to identify flaws in a programme often by switching in additional information. debugging Analysing computer code, and perhaps altering outputs and control, to isolate problems. decimal Defined by XML Schema. See datatypes. Decryption Decoding from encrypted data to plain messages. Denial Of Service Malicious technique for attacking Web sites by bombarding it with requests. Derived Schema Types XML Schema types included in the specification which inherit characteristics from the

Inbuilt Schema types. Digital Certificates Document issued by Certificate Authority for use in Authentication. Includes Digital Signature. digital signature Computer generated sequence of characters to uniquely identify a document or body. document Several meanings. An XML document may be a collection of XML nodes. drag See Drag & Drop. Drag & Drop This is a Graphic User Interface technique where icons are re-arranged to portray information. DTD Data Type Definition. This was a means of defining content for XML documents prior to XML Schema with limited functionality. ECMA Originally European Computer Manufacturers Association. See JavaScript. element Several meanings, such as a particular aspect of an XML node. EmailFieldType TelForm datatype signifying a field for an email address. Encryption Process whereby data is changed to prevent understanding by third parties. Intended recipients undergo reverse process. See Decryption. ExclusiveChoiceItem One of a selection attached to ExclusiveChoiceType, only one may be chosen. See TelForm datatypes. ExclusiveChoiceType TelForm type to which a number of ExclusiveChoiceItemTypes are appended representing a single choice. See datatypes. Favourites Customised datatypes, for example including Regular Expressions, may be stored on this TelFormFactory page. Not yet implemented. Floating Point Floating Point is a mechanism for processing decimal calculations in computer circuits. folded Graphical user interface effect to summarise data, such as a directory of files. FOP See Formatting Objects Processor. Formatting Objects Processor Apache Software Foundation software used to produce PDF documents from XML source. GROUP\_HEADER TelForm pseudo datatype used to group other TelForm fields ie XML nodes. HTML Hyper Text Markup Language used to encode web pages for structure, content and presentation control with varying degrees of effectiveness. http Hyper Text Transfer Protocol. <http://telform.co/ns/2009/telform> TelForm namespace identifier. <http://www.w3.org/2001/XMLSchema> Namespace identifier of a version of XML Schema. Inbuilt Schema Types XML Schema datatypes integral to the specification. include Specific method of associating XML Schema documents. See also import. include Schema URI XML Schema may include other XML Schema documents. A TelForm schema does this and the validator needs to locate it at this web or file location. index.html One of the default files which web browsers seek on a web site. instance document An actual example of data input. For example, a completed application form as opposed to one in a pile of blanks. integer Generally refers to any whole number, but XML Schema and Java have particular definitions. See datatypes. J2ME Java 2 Micro Edition. J2SE Java (version) 2 - Standard Edition. Version of Java 2, which varies from Java 2 Enterprise Edition and Java 2 Micro Edition. JAD Java Application Descriptor. jar File suffix for Java Archive - contains class bytecode files for Java Virtual Machine to run. Also has other information and optionally associated files such as graphics and so on. Often compressed. Java Programming Language able to run programmes on a number of platforms using a Java Virtual Machine. Java 2 Micro Edition Version of Java 2 for Mobile devices. Java 2 Standard Edition Version of Java 2, which varies from Java 2 Enterprise Edition and Java 2 Micro Edition. Java Archive Descriptor Formatted text document with details of Java archive (jar) files for Mobile devices, facilitating compatibility and functionality. Java Community Process Changes to the Java language are initiated and prioritised, at least in part, by this democratic process. Java Runtime Environment Necessary to run java programmes. JavaScript Scripting language published by Netscape about the same time as Java programming language. Similar to JScript, ECMAScript, and perhaps others. Java

Service Requests Submission to the Java Community Process. Java Virtual Machine Necessary to run java programmes. JDK See Java Development Kit. JRE Java Runtime Environment. JScript Scripting language. See JavaScript. JSR Java Service Request. Submission to the Java Community Process. JVM Java Virtual Machine. keyboard shortcuts Sequence of keyboard entries for common inputs. latched Change of state which requires another input to change back or to a new state. A Radio Button latches or toggles to a new state. Libraries Software, often in archive files, which an application needs to perform. Linux An increasingly popular Unix-type computer Operating System first published by Linus Torvalds. main A standalone Java programme has a main method which is the external entry point for the Java system. This differs from an applet. malware Collective noun for Software designed to harm, such as virus', trojans and others. maxOccurs XML Schema attribute stipulating maximum occurrences of this node or field. Default is 1 when omitted. See minOccurs. metadata Source of information about the data or needed to process the data. Midlet Java programme for Mobile device. MIDP See Mobile Information Device Profile, Mobile Information Device Profile version 1.0. MIDP 1.0 See Mobile Information Device Profile 1. minOccurs XML Schema attribute stipulating minimum occurrences of this node or field. Default is 1 when omitted. See maxOccurs. Mobile Information Device Profile Refers to all MIDP versions. Mobile Information Device Profile 1 A reference in conjunction with CLDC against which mobile device capability and functionality may be compared. TelForms produced by TelFormFactory only support MIDP 1.0 at this time. Mobile Information Device Profile version 1.0 A reference in conjunction with CLDC against which mobile device capability and functionality may be compared. TelForms produced by TelFormFactory only support MIDP 1.0 at this time. MultipleChoiceItem One of the choices attached to MultipleChoiceType. See datatypes. MultipleChoiceType TelForm pseudo datatype of which a number of choices may be made. See datatypes. namespace Method of including or excluding language items of an XML document. It has the effect that a line in one XML document may relate to one in another country, but not necessarily to the line above. It is the essence of XML Schema. nodeName The name of one the major components of an XML document. nodes Major defining point of all XML documents. From graph or network theory. Nodes have different perspectives according to position in XML tree. OCSP Online Certificate Status Protocol. Means of publishing details of invalidated Digital Certificates. Online Certificate Status Protocol System for electronically identifying expired Digital Certificates. Open Source Indicates that the Computer code may be viewed for comment and contribution by customers. OTA Over The Air, - means of distributing programmes for Mobile devices, called (Midlets), from Central Office without a request. Over The Air Means of distributing programmes for Mobile devices, called (Midlets), from Central Office without a request. parse The act of scanning a document for correctness. PDF Portable Document Format - an open standard for documents. Perl Scrip programming language. PhoneFieldType TelForm datatype for entering Telephone numbers. See datatypes. PKI See Public Key Infrastructure. popup Feature of Web or GUI page which becomes visible on user action. pre-compiled Stage of processing undertaken before some programmes are executed. programmes Computer code and associated information needed by a computer to execute one or more processes. Public Key Infrastructure System which aims to authenticate participants using Digital Certificates with visible keys or unique codes. push A Server may push data or programmes to remote clients without a request.

Radio Button GUI widget which emulates a toggle action such as on|off or selected|deselected as on old car radio. RegEx See Regular Expressions. Regular Expression Grammar by which allowable contents of say a String field is specified and verified. There are a number of variations and XML Schema has its own. Regular Expression Builder TelFormFactory sub-application, used to test Regular Expressions for use in TelForm fields. Work in progress. Request URL Web 'address' which may also include other parameters which a Client uses to transact with a Server. rich Having enhanced functionality, as in rich Client software as opposed to a lean Client. root The basis of a tree-like structure, such as an XML document, many file systems, or the super-user of Unix type systems. Root Certificates Digital Certificates held by the top layer of Certificate Authorities which provide an audit trail for dependant certificates. sandbox Metaphor for the virtual environment in which eg Java applets run, protected by the Security Manager. Schema for Schema XML Schema may be defined in its own terms. XML Schema is specified in two documents from the World Wide Web Consortium. Schema Namespace The namespace, or one of the namespaces, of an XML Schema. Schema URI The location, such as file or web path of the XML Schema, needed by the validator. Script A form of computer programme normally interpreted and processed line-by-line as opposed to compiled code. Security Manager Process within Java Virtual Machine which allows or prevents certain actions to help ensure system integrity. Self Signed Certificate Digital Certificate not verified by Certificate Authorities. May be issued by Software authors and worth checking. self-signing Developers may produce their own Self Signed Certificates. Server The computer system which services requests from Client systems. Server URL Web address of the Server system. See Request URL. servlet Server-side programming component. signed Altered by a distinguishing mark, here probably a digital signature and a checksum of the file for security purposes. SMS Short Messaging Service, also known as Text Messaging. String String is the broadest of data-types, it describes any character sequence. It can be restricted by Regular Expressions. Struts A framework from Apache Software Foundation for server-side web application programmes. tel tag Name used in TelForm storage documents. TelForm The clients produced by TelFormFactory which submit data to the TelFormHost server. TelForm Author TelFormFactory enters the value from the host system in the TelForm field for version control. TelForm Date The Date the TelForm was generated, this is entered by TelFormFactory for version control but may be over-written. TelFormFactory Application for producing XML Schema and matching TelForm clients. TelFormFactoryLog The TelFormFactory application has a Log file to assist in System fault-finding. TelFormFactoryLog.xml Default name of the TelFormFactory Log file. TelFormHost Server for TelForm Applications. TelFormRootType The core datatype of a TelForm. See datatypes. TelForms The clients produced by TelFormFactory which submit data to the TelFormHost server. TelForm Version TelFormFactory enters the value from the host system in the TelForm field for version control. thread Logical sequence of Computer processing. May share memory and other resources with other threads unless the Application excludes this. tok tag prefix used in TelForm XML Schema. tree An XML pattern is known as a tree because it has a root and branches. The TelForm model emulates this. trusted State where a Client or Server may grant privileges, eg to write to file, perhaps after authentication, or user choice. userHelp The additional information provided by the TelFormFactory user to the TelForm customer to complete the form in the required manner. valid Found to be compliant with XML specifications and one

or more XML Schema documents. validator Software programme used to ascertain whether the content and structure of XML documents conform to a particular XML Schema. Needs to parse documents for XML correctness first. validators Assumes all XML Validating Software of which there are a growing number with varying degrees of efficiency and expense. verification chain The sequence of digital signatures from the Root Certificate to the user. verifier Process in data processing, such as code checking or before XML validation. W3C World Wide Web Consortium. Web Browsers Software used to render Web pages. white space The computer character codes which serve to format our text documents such as the space character, End of Line and Tab. Wildcard Symbol allowing free range of characters in expression, such as '\*' in command line operations. Wine Windows Emulation Environment for Linux and perhaps others. World Wide Web Consortium International organisation which publishes recommendations concerning the Internet and similar systems. Xerces Xerces is an Open Source XML parser and validator from the Apache Software Foundation. XML Extensible Markup Language. A World Wide Web specification for describing data and the basis for a wide range of processing technologies. XML Schema XML Document used to compare content of XML instance documents. XML Schema definition The term in the XML Schema document which allows or restricts a range of data entries. XML Schema Validator Software which compares XML instance document against XML Schema and reports conformity or otherwise. Also ensures XML Schema itself conforms to specifications and all documents are well-formed. XML Stylesheet Language See XSL or Extensible StyleSheet language xsd File suffix often used for XML Schema documents. xsdType TelForm identifier field for XML Schema type, TelForm pseudo-types and possibly others. XSL Extensible Stylesheet Language. Used to manipulate and format XML documents.

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