



# Automated Documents

Standard

STD-2

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Public

## Document Change History

Issue	Reason for Issue	Date
1.0	First issue of IESO Standard. Consolidation of IESO_ISTD_0001, IESO_ISTD_0002, IESO_ISTD_0011 (which will be retired).	April 5, 2013
2.0	Update control page	March 23, 2015

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## **Introduction**

### **Purpose**

This document defines rules and guidelines pertinent to all automated documents produced and published by the IESO. It is intended to ensure consistency in the production, publication, management and use of IESO automated documents.

### **Assumptions & Limitations**

The document does not address either the data integrity of the automated document or the information contained within automated documents. It is assumed that this will be addressed in the design specification.

### **Global Exemptions**

All automated documents deployed before April 5, 2013 are exempt from this standard until replaced or refreshed.

**– End of Section –**

## **Rules & Guidelines**

### **Automated Document Generation**

#### **1 Rule – One IT supported system will produce automated documents**

The IESO will have only one IT supported system to produce automated documents. Automated documents including reports, invoices, and statements must use this system.

#### **Approved Exceptions**

No exceptions are approved.

#### **2 Rule – Automated documents will be produced in XML**

The IESO will produce all automated documents in eXtensible Markup Language (XML) coupled with an XML Schema Definition (XSD) document.

#### **Approved Exceptions**

No exceptions are approved.

#### **3 Guideline – Automated document style sheets**

The IESO will provide eXtensible Stylesheet Language (XSL) files to accompany each automated document.

#### **Approved Exceptions**

No exceptions are approved.

### **Design of Automated Documents**

#### **4 Rule – Automated documents will be documented by a design specification**

Each automated document will be documented with a design specification document.

#### **Approved Exceptions**

No exceptions are approved.

## 5 Rule – Automated document file naming convention

The automated document file name will consist of the following elements separated by an underscore. It is not case sensitive.

Element	Format	Description
<i>confidentiality</i>	<b>int</b>	IESO internal documents
	<b>pub</b>	Public documents
	<b>cnf-group_identifier</b>	Confidential documents. <i>group_identifier</i> is normally the participant short name as identified in IESO's master database.
<i>identifier</i>	<i>Alphanumeric and hyphen.</i>	The document identifier is used to ensure automated document name uniqueness. Typically, the name describes the information content.(e.g. PreDispatch)
<i>date_time_stamp*</i>	YYYY	The 4 digit year associated with the automated document contents. (e.g. 2013)
	YYYYMM	The 4 digit year and 2 digit month (01-12) associated with the automated document contents. (e.g. 201301)
	YYYYMMDD	The 4 digit year, 2 digit month (01-12) and 2 digit day (01-31) associated with the automated document contents. (e.g. 20130131)
	YYYYMMDDHE	The 4 digit year, 2 digit month (01-12), 2 digit day (01-31) and 2 digit hour ending (01-24) associated with the automated document contents. (e.g. 2013013114 – Jan 31, 2013 Hour ending 14)

	YYYYMMDDHHMN	The 4 digit year, 2 digit month (01-12), 2 digit day (01-31), 2 digit clock hour (00-23) and minute associated with the automated document contents.  (e.g. 201301311345 – Jan 31, 2013 13:45)
<i>version</i>	<i>vNumeric</i>	The version number will start at one (1) and increment with each automated document change. (e.g. v1, v2, v3)
<i>type</i>	<b>.xml</b>	XML document.

\* The date/time stamp is used to identify the end of the period that the document content applies to in Eastern Standard Time (EST).

Example: pub\_PARDaily\_20130312\_v2.xml

### Approved Exceptions

No exceptions are approved.

## 6 Rule – Automated document XML headers must contain specific tags

The following is mandatory:

Element	Description
<i>version</i>	The World Wide Web Consortium XML version.  e.g. <code>&lt;?xml version="1.0" ?&gt;</code>
<i>style_sheet</i>	The style sheet processing instruction.  e.g. <code>&lt;?xml-stylesheet type="text/xsl" href="http://www.ieso.ca/docrefs/stylesheet/Invoice_HTML_t1-1.xsl" ?&gt;</code>
<i>document</i>	The document declaration tag will set up the namespace and identify the location of the schema.

	<p>e.g.</p> <pre> &lt;Document xmlns:xsi="http://www.w3.org/2001/XMLSchema- instance" xmlns="http://www.ieso.ca/schema" xsi:schemaLocation="http://www.ieso.ca/schema http://www.ieso.ca/docrefs/schema/Invoice_rl.xsd" docID="Invoice"&gt; ... &lt;/Document&gt; </pre>
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### Approved Exceptions

No exceptions are approved.

### 7 Rule – Automated document will contain a document header that must contain specific tags

The Document header is identified with:

```
<DocHeader>
```

The following elements are mandatory:

Element	Description
<i>title</i>	Human readable title of the document. e.g. <DocTitle>Automated Document Title</DocTitle>
<i>revision</i>	The revision number of the document schema. e.g. <DocRevision>1</DocRevision>
<i>confidentiality</i>	The confidentiality of the document e.g. <DocConfidentiality> <DocConfClass>Public</DocConfClass> </DocConfidentiality>
<i>creation_time</i>	The creation time (24 hour clock) of the document e.g.



	<CreatedAt>YYYYMMDD HH:MM:SS</CreatedAt>
<i>disclaimer</i>	The disclaimer to identify the quality of the data. e.g. <Disclaimer>The IESO is not responsible for ... </Disclaimer>

### Approved Exceptions

No exceptions are approved.

### 8 Rule – Automated document body will use standard tag names

The data element of the document will use the tag:

<DocBody>

### Approved Exceptions

No exceptions are approved.

## Design of XML Schema for Automated Documents

### 9 Rule – Schema file names will adhere to a naming convention

The automated document schema file (xsd) name will consist of the following elements separated by an underscore. It is not case sensitive.

Element	Format	Description
<i>identifier</i>	<i>Alphanumeric and hyphen.</i>	The identifier is used to ensure schema name uniqueness. It should be the same as the associated automated document <i>identifier</i> .
<i>revision</i>	<b>r</b> <i>Numeric</i>	The revision number will start at one (1) and increment with each schema change. (e.g. r1, r2)
<i>type</i>	<b>.xsd</b>	Schema document.

Example: PARDaily\_r1.xsd

## Approved Exceptions

No exceptions are approved.

## 10 Rule – Schema files will reside in one location

All production schema files will reside at: <http://www.ieso.ca/docrefs/schema/>

## Approved Exceptions

No exceptions are approved.

## Design of Style Sheets for Automated Documents

### 11 Rule – Style sheet file names will adhere to a naming convention

All style sheets (xsl) referenced in automated document xsd files will have a filename consisting of the following elements separated by an underscore. It is not case sensitive.

Element	Format	Description
<i>Identifier</i>	<i>Alphanumeric and hyphen.</i>	The identifier is used to ensure stylesheet name uniqueness. It should be the same as the associated automated document <i>identifier</i> .
<i>Transformation</i>	<b>HTML</b>	The only supported stylesheet transformation type is HTML.
<i>Translation</i>	<i>tSchema-version</i>	The translation element identifies the schema revision and the version of the style sheet. (e.g. t1-3)
<i>Type</i>	<b>.xsl</b>	Stylesheet document.

Example: PARDaily\_HTML\_t1-3.xsl

## Approved Exceptions

No exceptions are approved.

## **12 Rule – Style sheet files will reside in one location**

All production automated document style sheet files will reside at:  
<http://www.ieso.ca/docrefs/stylesheet/>

### **Approved Exceptions**

No exceptions are approved.

– End of Section –

## **Compliance Plan**

The Director IT delegates responsibility to ensure all Automated Documents are compliant with rules to the component steward for the Automated Document System.

**– End of Section –**

## **Glossary**

### **Automated Document**

A report, invoice, statement or any other document automatically produced and published by an IT supported solution excluding end-user computing tools (e.g. BITS reports) and open data files.

### **Confidentiality Classification**

Confidentiality classification identifies whether information needs or does not need restrictions for access, disclosure, reproduction, or usage. Confidentiality classifications for the IESO are defined in the Market Rules, chapter 3 section 5.4.1.

### **Document**

A document is a bounded physical or digital representation of a body of information designed with the capacity (and usually intent) to communicate. Documents do not include electronic messages such as text messages, email messages, or instant messages.

### **Guideline**

Guidelines are not mandatory but are provided to guide and assist IESO staff in fulfilling their duties. Guidelines are included in governing documents for the convenience of the reader.

### **Information**

Data provided to or received from people in a format that provides sufficient content, context and structure to be understood by and provide value to the audience. This is colloquially expressed as “The right Data provided to or from the right person in the right format at the right time”.

### **Information Handling Restriction**

A handling restriction is a specific rule which limits disclosure, reproduction or usage of the information. A handling restriction may be quite simple or very complex, depending upon what is required to protect the information yet make it accessible and usable to those who need the information. A handling restriction must provide may also provide specific rules for the disclosure, reproduction, or usage of the information.

Example 1: This document may not be printed or saved to distributable media.

Example 2: Do not copy.

### **Rule**

Rules are mandatory. IESO staff are required to follow them in carrying out their duties.

– End of Section –

## References

Document Title	Document ID

## Related Documents

Document Title	Document ID

- End of Document -