

NSI Bar Code Validation Specification

May 22, 2007
Revision 1.1

Table of Contents

1. Overview	3
1.1 Introduction	3
1.2 Scope.....	4
1.3 Terminology and Definitions	4
1.4 Referenced Documents.....	4
2. Validation Environment	4
2.1 General Design Considerations	5
2.2 Design Considerations by Technology Type	5
2.2.1 Ticket Bar Code Design	5
2.2.2 Bar Code Reader.....	5
2.2.3 Terminal Software.....	5
2.2.4 Bar Code Terminal	6
2.2.5 Server-Side Software Application	6
2.2.6 Integrated Gaming System	6
3. Validation Harness Specification	6
3.1 Ticket Bar Code Design.....	7
3.2 Bar Code Reader.....	7
3.3 Terminal Software.....	7
3.4 Bar Code Terminal	7
3.5 Server-Side Software Application	7
3.6 Integrated Gaming System	7
4. Data Formats	8
4.1 Validation Data Input Format	8
4.1.1 Validation Data Input Format for Ticket Bar Code Design	8
4.1.2 Validation Data Input Format for Other Bar Code Technology Types	9
4.2 Validation Data Output Format	9
4.2.1 Ticket Bar Code Design Validation Data Output Format	9
4.2.2 Bar Code Reader Validation Data Output Format	9
4.2.3 Terminal Software Validation Data Output Format	10
4.2.4 Bar Code Terminal Validation Data Output Format.....	10
4.2.5 Server-Side Software Application Validation Data Output Format	11
4.2.6 Integrated Gaming System Validation Data Output Format.....	12
4.3 Style Sheet to Produce Printed Bar Codes for Scanning.....	12
5. Submission Guidelines.....	13
5.1 Validation Report	13
5.1.1 Validation Results.....	13
5.1.2 Validation Environment Description	13
5.1.3 Additional supporting information concerning the Validation Results	15
5.1.4 Interpretation of the Validation Results	15
5.2 Validation Harness Design Documentation	16
5.2.1 Validation Harness Design Specification	16
5.2.2 Validation Harness Source Code.....	16

1. Overview

1.1 Introduction

The objective of the North American Association of State and Provincial Lotteries (NASPL) Standards Initiative Certification and Verification Program is to encourage and facilitate the adoption and implementation of NASPL Standards Initiative (NSI) Best Practices and Technical Standards in lotteries, lottery industry vendors, and other lottery industry expert organizations that provide software, hardware, or services to lotteries. Certification provides formal recognition of an Organization's conformance to an industry Best Practice or Technical Standard. The Certification Program is for vendors and other organizations that wish to demonstrate and receive recognition for the conformance of their business practices and technologies to the NSI Best Practices and Technical Standards, whereas the Verification Program is the parallel program providing the means for lotteries to demonstrate conformance in the areas applicable to lotteries.

This document, the NSI Bar Code Validation Specification, defines:

- **The Validation Environment**, which is comprised of:
 - The actual equipment and related software that comprise the technology
 - Additional gaming system components that represent Bar Code technologies and therefore must themselves be NSI certified
 - Ancillary components that do not represent Bar Code technologies and therefore need not be NSI certified
- **The Validation Harness**, which is a specific software implementation within the Validation Environment that includes the capacity to accept, convert and format the Validation Data provided by the Certification and Verification Authority for the specific test and to capture, convert and format the Validation Results to be included in the Validation Report.
- **The XML Schemas** for Validation Data Input and Output:
 - The Validation Data Input Format, which defines a schema for the Validation Data that is generated and made available to the Organization by the Certification and Verification Authority and which is based on the Organization's Conformance Statement.
 - The Validation Data Output Format, which defines a schema for the Validation Results that have been captured as output by the Validation Harness
- **The Submission Guidelines** for:
 - The Validation Report, which is comprised of:
 - Validation Results, formatted in the appropriate Validation Data Output Format schema
 - A description of the Validation Environment
 - Optional additional supporting information concerning the Validation Results.
 - Optional interpretation of the Validation Results.
 - Documentation of the Validation Harness:
 - Validation Harness Design Specification

- Validation Harness Source Code

This document is intended primarily for the technical resources of an Organization that would like to certify one or more of their technologies against the Bar Code Technical Standard. The collective policy represented by both the general NSI Certification/Verification Policy and the NSI Policy Supplement for Bar Code Certification - in conjunction with the Certification/Verification Agreement and applicable Trademark License Agreement - constitutes the set of requirements and obligations for achieving certification.

1.2 Scope

NSI Bar Code certification covers the following NSI Technical Standard: Bar Codes for Instant Tickets in the Lottery Industry.

A candidate for Bar Code Certification is classified as one of the following types of Bar Code Technology:

- **Ticket Bar Code Design:** This technology type comprises (1) the bar code content and (2) the physical printed bar code.
- **Bar Code Reader:** This technology type is an optical device for scanning a printed bar code that, with the aid of an internal or external driver, provides data that can be processed by Terminal Software or a Server-Side Software Application.
- **Terminal Software:** This technology type interprets data from a Bar Code Reader and processes that data for application-specific purposes.
- **Bar Code Terminal:** This technology type combines a Bar Code Reader and Terminal Software in a single physical unit.
- **Server-Side Software Application:** This technology type accepts bar code data as input and processes that data for application-specific purposes.
- **Integrated Gaming System:** This technology type comprises an integrated collection of components that may include instances of the other technology types.

Bar Code Terminal certification and Integrated Gaming System certification each provide certification for a set of components. The individual components within these technologies are not certified by virtue of the set being certified and cannot be represented as certified unless they have also been separately certified.

1.3 Terminology and Definitions

Refer to the general NSI Certification/Verification Policy document.

1.4 Referenced Documents

This document should be used in conjunction with the general NSI Certification/Verification Policy document and the NSI Policy Supplement for Bar Code Technology Certification. It is not intended for stand-alone use.

2. Validation Environment

This section describes what a Validation Environment must accomplish in order to successfully validate the Bar Code Technology entity to achieve certification against the Bar Code Technical Standard. An overview of the process for certification can be found in the NSI Policy Supplement for Bar Code Technology Certification.

In general, test environments attempt to recreate an actual operational environment with defined monitoring points. These monitoring points become the basis for demonstrating conformance. Specifically, the validation approach for the Bar Code Technical Standard utilizes an automated process to evaluate the validation results submitted by an Organization. This automated evaluation necessarily imposes some requirements on the design of the Validation Environment, as detailed in the sections that follow.

As part of the Organization's submission for certification, the Organization will be required to include a document describing the Validation Environment that was used.

2.1 General Design Considerations

For all technology types, the design of the Validation Environment must account for the capture of the raw output of the technology. In creating the Validation Environment for the Bar Code Technical Standard, Organizations must utilize the actual equipment and related software that comprise the technology. This equipment and software must be configured in a manner consistent with an actual operational environment with the appropriate monitoring points established per the Validation Harness Specification.

2.2 Design Considerations by Technology Type

2.2.1 Ticket Bar Code Design

Ticket Bar Code Design validation requires that the same version of software that will be used in production be used in the Validation Environment to generate the bar code. Additionally, equipment of the same make and model as the production environment must be used to physically print the generated bar code. The printed bar code should then be scanned using a certified Bar Code Reader and certified Terminal Software or a certified Bar Code Terminal and the output captured per the Validation Harness Specification.

2.2.2 Bar Code Reader

The Organization has maximum flexibility in determining how to package a Bar Code Reader for certification, as a Bar Code Reader may be certified standalone, as a component of a Bar Code Terminal, or in conjunction with other components to provide an Integrated Gaming System.

For a standalone Bar Code Reader, the design of the Validation Environment must account only for the capture of the raw output of the Bar Code Reader.

2.2.3 Terminal Software

The Organization has maximum flexibility in determining how to package Terminal Software for certification, as Terminal Software may be certified standalone, as a component of a Bar Code Terminal, or in conjunction with other components to provide an Integrated Gaming System.

Certification of standalone Terminal Software requires the use of a certified Bar Code Reader. Information about the certification of the Bar Code Reader must be included in the Validation Environment documentation submitted as part of the Validation Report.

2.2.4 Bar Code Terminal

Certification of a Bar Code Terminal provides a single certification for the combination of a Bar Code Reader and Terminal Software.

For a standalone Bar Code Terminal, the design of the Validation Environment must account only for the capture of the raw output of the Bar Code Terminal.

2.2.5 Server-Side Software Application

The Organization has maximum flexibility in determining how to package a Server-Side Software Application for certification, as a Server-Side Software Application may be certified standalone or in conjunction with other components to provide an Integrated Gaming System.

Certification of a standalone Server-Side Software Application is focused at the back-end system that handles the actual capture, handling, and storage of the bar code data and requires the use of a certified Bar Code Reader and certified Terminal Software or the use of a certified Bar Code Terminal. Information about the certification of such component(s) must be included in the Validation Environment description submitted as part of the Validation Report.

2.2.6 Integrated Gaming System

Integrated Gaming System certification provides certification for a set of components.

For an Integrated Gaming System, the design of the Validation Environment must account only for the capture of the raw output of the Integrated Gaming System.

3. Validation Harness Specification

The Validation Harness is a specific software implementation within the Validation Environment that includes the capacity to accept, convert and format the Validation Data provided by the Certification and Verification Authority for the specific test and to capture, convert and format the Validation Results to be included in the Validation Report.

For all Bar Code technology types, the validation process begins with a set of Validation Data generated by the Certification and Verification Authority per the Validation Data Input Format, detailed in Section 4.1. The Organization will obtain the Validation Data from the Certification and Verification Authority by downloading the data from the web-based certification/verification system during the appropriate step in the certification process, as described in the NSI Guide Supplement for Bar Code Certification.

For Bar Code technology types other than Ticket Bar Code Design, the Organization must print the Validation Data to produce bar codes for scanning by a Bar Code Reader or Bar Code Terminal. The Organization may use the Style Sheet provided in Section 4.3 to format files for printing. The method chosen for printing and details of equipment used to print the bar codes must be included in the Validation Environment description submitted with the Validation Report.

The Organization will capture the results from scanning the Validation Data bar codes. Details of equipment used to capture the results must be included in the Validation Environment description submitted with the Validation Report.

Once the validation process has been completed and the captured output data has been converted into the appropriate format for the technology type per Section 4.2, the Validation Results will be submitted per the guidelines in Section 5.

3.1 Ticket Bar Code Design

The Organization must convert the Validation Data into their internal format for input into their system. The method used to accomplish this conversion must be included in the Validation Environment description submitted as part of the Validation Report.

The Organization will process the converted data to produce and then scan Bar Code Tickets consistent with Validation Environment considerations detailed in Section 2.2.1.

The captured results from scanning the bar codes will then be converted to comply with the Validation Data Output Format detailed in Section 4.2.1.

3.2 Bar Code Reader

The Organization will scan the Validation Data bar codes consistent with Validation Environment considerations detailed in Section 2.2.2.

The captured results from scanning the bar codes will then be converted to comply with the Validation Data Output Format detailed in Section 4.2.2.

3.3 Terminal Software

The Organization will scan the Validation Data bar codes consistent with Validation Environment considerations detailed in Section 2.2.3.

The captured results from scanning the bar codes will then be converted to comply with the Validation Data Output Format detailed in Section 4.2.3.

3.4 Bar Code Terminal

The Organization will scan the Validation Data bar codes consistent with Validation Environment considerations detailed in Section 2.2.4.

The captured results from scanning the bar codes will then be converted to comply with the Validation Data Output Format detailed in Section 4.2.4.

3.5 Server-Side Software Application

The Organization will scan the Validation Data bar codes consistent with Validation Environment considerations detailed in Section 2.2.5.

The captured results from scanning the bar codes will then be converted to comply with the Validation Data Output Format detailed in Section 4.2.5.

3.6 Integrated Gaming System

The Organization will scan the Validation Data bar codes consistent with Validation Environment considerations detailed in Section 2.2.6.

The captured results from scanning the bar codes will then be converted to comply with the Validation Data Output Format detailed in Section 4.2.6.

4. Data Formats

Both the Validation Data Input Format and the Validation Data Output Format take the form of an XML Schema. The Validation Data Input Format defines a schema for the Validation Data that is generated and made available to the Organization by the Certification and Verification Authority based on the Organization's Conformance Statement. The Validation Data Output Format defines a schema for the Validation Results that have been captured as output by the Validation Harness, as described in Section 3 above.

One Validation Data Input Format schema is defined in Section 4.1.1 for Ticket Bar Code Design and another in Section 4.1.2 for all other Bar Code technology types.

A specific Validation Data Output Format schema is defined in Section 4.2 for each Bar Code technology type.

A Style Sheet is provided in Section 4.3 that will facilitate the printing of bar code images from the Validation Data.

4.1 Validation Data Input Format

4.1.1 Validation Data Input Format for Ticket Bar Code Design

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified">
<xs:element name="BarCodeDesignInput">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="TicketInfo" maxOccurs="unbounded">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="BarCodeType" type="xs:string" minOccurs="0"/>
            <xs:element name="IndicatorDigit" type="xs:string" minOccurs="0"/>
            <xs:element name="CompanyPrefix" type="xs:string" minOccurs="0"/>
            <xs:element name="ItemReference" type="xs:string" minOccurs="0"/>
            <xs:element name="GTINCheckDigit" type="xs:string" minOccurs="0"/>
            <xs:element name="GameNumber" type="xs:string" minOccurs="0"/>
            <xs:element name="PackNumber" type="xs:string" minOccurs="0"/>
            <xs:element name="TicketNumber" type="xs:string" minOccurs="0"/>
            <xs:element name="FormatID" type="xs:string" minOccurs="0"/>
            <xs:element name="ValidationNumber" type="xs:string" minOccurs="0"/>
            <xs:element name="PricePoint" type="xs:string" minOccurs="0"/>
            <xs:element name="JurisdictionCode" type="xs:string" minOccurs="0"/>
            <xs:element name="CheckDigits" type="xs:string" minOccurs="0"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:schema>
```

4.1.2 Validation Data Input Format for Other Bar Code Technology Types

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified">
<xs:element name="BarCodeImages">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="BarCodeImageName" type="xs:string" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:schema>
```

4.2 Validation Data Output Format

4.2.1 Ticket Bar Code Design Validation Data Output Format

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified">
<xs:element name="BarCodeDesign">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="BarCodeImage" type="xs:string" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:schema>
```

4.2.2 Bar Code Reader Validation Data Output Format

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified">
<xs:element name="BarCodeReaderResults">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="ScanOutput" type="xs:string" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:schema>
```

4.2.3 Terminal Software Validation Data Output Format

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified">
<xs:element name="TerminalSoftwareResults">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="SoftwareOutput" type="xs:string" maxOccurs="unbounded" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:schema>
```

4.2.4 Bar Code Terminal Validation Data Output Format

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified">
<xs:element name="BarCodeTerminalResults">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="TicketInfo" maxOccurs="unbounded">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="BarCodeImageName" type="xs:string" maxOccurs="unbounded" />
          </xs:sequence>
        </xs:complexType>
      </xs:sequence>
    </xs:complexType>
  </xs:element>
</xs:schema>
```

4.2.5 Server-Side Software Application Validation Data Output Format

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified">
<xs:element name="ServerApplicationResults">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="TicketInfo" maxOccurs="unbounded">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="IndicatorDigit" type="xs:string" minOccurs="0"/>
            <xs:element name="CompanyPrefix" type="xs:string" minOccurs="0"/>
            <xs:element name="ItemReference" type="xs:string" minOccurs="0"/>
            <xs:element name="GTINCheckDigit" type="xs:string" minOccurs="0"/>
            <xs:element name="GameNumber" type="xs:string"/>
            <xs:element name="PackNumber" type="xs:string"/>
            <xs:element name="TicketNumber" type="xs:string"/>
            <xs:element name="FormatID" type="xs:string"/>
            <xs:element name="ValidationNumber" type="xs:string"/>
            <xs:element name="PricePoint" type="xs:string" minOccurs="0"/>
            <xs:element name="JurisdictionCode" type="xs:string" minOccurs="0"/>
            <xs:element name="CheckDigits" type="xs:string"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:schema>
```

4.2.6 Integrated Gaming System Validation Data Output Format

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema"
elementFormDefault="qualified">
<xs:element name="GamingSystemResults">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="TicketInfo" maxOccurs="unbounded">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="IndicatorDigit" type="xs:string" minOccurs="0"/>
            <xs:element name="CompanyPrefix" type="xs:string" minOccurs="0"/>
            <xs:element name="ItemReference" type="xs:string" minOccurs="0"/>
            <xs:element name="GTINCheckDigit" type="xs:string" minOccurs="0"/>
            <xs:element name="GameNumber" type="xs:string"/>
            <xs:element name="PackNumber" type="xs:string"/>
            <xs:element name="TicketNumber" type="xs:string"/>
            <xs:element name="FormatID" type="xs:string"/>
            <xs:element name="ValidationNumber" type="xs:string"/>
            <xs:element name="PricePoint" type="xs:string" minOccurs="0"/>
            <xs:element name="JurisdictionCode" type="xs:string" minOccurs="0"/>
            <xs:element name="CheckDigits" type="xs:string"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:schema>
```

4.3 Style Sheet to Produce Printed Bar Codes for Scanning

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<xsl:stylesheet version="1.0"
xmlns:xsl="http://www.w3.org/1999/XSL/Transform">
<xsl:template match="/">
  <html>
  <body>
    <h2>Bar Code Images for Scanning</h2>
    <table border="1">
      <xsl:for-each select="BarCodeImages/TicketInfo">
        <tr>
          <td width="380px" height="180px" align="right" valign="bottom">
            
          </td>
        </tr>
      </xsl:for-each>
    </table>
  </body>
</html>
</xsl:template>
</xsl:stylesheet>
```

5. Submission Guidelines

This section defines the documentation to be submitted to the Certification and Verification Authority by the applicant:

- The Validation Report, including the Validation Results and a description of the Validation Environment
- Validation Harness Documentation, comprising the Design Specification and the Source Code

The applicant will prepare the documentation for submission as described in this section and will upload the files to the Certification and Verification Authority via the web-based certification/verification system during the appropriate step in the certification process, as described in the NSI Guide Supplement for Bar Code Certification.

5.1 Validation Report

The Validation Report comprises at least two discrete documents (see below) and therefore must be submitted as a single file in a standard document archive format (zip or tar/gzip). The documents that must be included in the Validation Report archive file are:

- Results of performing the validation process using the Validation Harness described in Section 3 above. These Validation Results should be presented in the format described in the appropriate subsection of Section 4.2 above and should be named ValidationResults.xml.
- A document containing a description of the Validation Environment consistent with the considerations detailed in Section 2 above. This description should be presented in the format described in the appropriate subsection of Section 5.1.2 below.

Additional documents that may optionally be included in the Validation Report archive file are:

- Additional supporting information concerning the Validation Results.
- Interpretation of the Validation Results.

5.1.1 Validation Results

The validation process for each technology type will result in a number of specific instances of bar code related data that will be passed through equipment and software. This output will be captured and reformatted to comply with the XML schema that is specific to each technology type and defined in Section 4. These XML compliant instances should be combined into one file that is named ValidationResults.xml and submitted to the Certification and Verification Authority as part of the Validation Report.

5.1.2 Validation Environment Description

This section defines how to submit a detailed description of the Validation Environment. The validation process for each technology type requires exercising the technology and the Validation Harness on a particular combination of hardware and software. The Validation Environment description must contain a precise definition of any hardware and/or software that was used in the Validation Environment beyond the technology and the Validation Harness. The templates below should be used as the basis for listing the components of the Validation Environment and should be augmented by text and/or graphics describing the interaction of these components.

This Validation Environment description should be consolidated into a single PDF file named ValidationEnvironment.pdf and submitted to the Certification and Verification Authority as part of the Validation Report.

5.1.2.1 Ticket Bar Code Design Validation Environment Component Template

Please note that either the Bar Code Terminal description or both the Bar Code Reader and Terminal Software descriptions must be completed. The Additional Component description should be repeated as needed.

Paper:

Manufacturer:
Product Name and Number:

Ink:

Manufacturer:
Product Name and Number:

Printer:

Manufacturer:
Product Name and Number:

Bar Code Reader:

Manufacturer:
Product Name and Number:
NSI Certification Date:

Terminal Software:

Manufacturer:
Product Name and Number:
NSI Certification Date:

Bar Code Terminal:

Manufacturer:
Product Name and Number:
NSI Certification Date:

Additional Component:

Manufacturer:
Product Name and Number:

5.1.2.2 Bar Code Reader Validation Environment Component Template

The Additional Component description should be repeated as needed.

Type of Printer: [Inkjet | Laser | Other]

Additional Component:

Manufacturer:
Product Name and Number:

5.1.2.3 Terminal Software Validation Environment Component Template

The Additional Component description should be repeated as needed.

Type of Printer: [Inkjet | Laser | Other]

Bar Code Reader:

Manufacturer:
Product Name and Number:
NSI Certification Date:

Additional Component:

Manufacturer:
Product Name and Number:

5.1.2.4 Bar Code Terminal Validation Environment Component Template

The Additional Component description should be repeated as needed.

Type of Printer: [Inkjet | Laser | Other]

Additional Component:

Manufacturer:

Product Name and Number:

5.1.2.5 Server-Side Software Application Validation Environment Component Template

Please note that either the Bar Code Terminal description or both the Bar Code Reader and Terminal Software descriptions must be completed. The Additional Component description should be repeated as needed.

Type of Printer: [Inkjet | Laser | Other]

Bar Code Reader:

Manufacturer:

Product Name and Number:

NSI Certification Date:

Terminal Software:

Manufacturer:

Product Name and Number:

NSI Certification Date:

Bar Code Terminal:

Manufacturer:

Product Name and Number:

NSI Certification Date:

Additional Component:

Manufacturer:

Product Name and Number:

5.1.2.6 Integrated Gaming System Validation Environment Component Template

Descriptions of Bar Code technology types other than the Integrated Gaming System itself should not be required, as all bar code processing is assumed to occur within the Integrated Gaming System. The Additional Component description should be repeated as needed.

Type of Printer: [Inkjet | Laser | Other]

Additional Component:

Manufacturer:

Product Name and Number:

5.1.3 Additional supporting information concerning the Validation Results

The applicant may optionally submit additional supporting information concerning the validation process and the Validation Results that were captured as output. This information should be consolidated into a single PDF file named SupportingInformation.pdf and submitted to the Certification and Verification Authority as part of the Validation Report.

5.1.4 Interpretation of the Validation Results

The applicant may optionally submit additional information concerning the interpretation of the Validation Results. This information should be consolidated into

a single PDF file named ResultsInterpretation.pdf and submitted to the Certification and Verification Authority as part of the Validation Report.

5.2 Validation Harness Design Documentation

5.2.1 Validation Harness Design Specification

In addition to the Validation Report, the Organization must submit a specification of the design of the Validation Harness that was used to accept input into and capture output from the technology. If this specification comprises more than one file, all the documents must be submitted as a single file in a standard document archive format (zip or tar/gzip).

5.2.2 Validation Harness Source Code

In addition to the Validation Report, the Organization must submit the source code for the Validation Harness that was used to accept input into and capture output from the technology. If this source code comprises more than one file, all the files must be submitted as a single file in a standard document archive format (zip or tar/gzip).