August 5, 2014

Memorandum

To: Members of the Board

From: Wendy M. Payne, Executive Director

Subj: XBRL Briefing – Tab B ¹

MEETING OBJECTIVES

- Enhanced knowledge of electronic reporting through XBRL

BRIEFING MATERIAL

The attachments provide:

1. FASAB Briefing: Intelligent Data

BACKGROUND

Members increasingly point to electronic reporting as a consideration in the reporting model project. Learning more about the use of tools such as XBRL may be helpful as we deliberate on the reporting model project. XBRL is one tool used to provide meaningful information independent of a particular software application. It is increasingly being used for business reporting including regulatory filings.

PWc has been an active participant in the XBRL community and agreed to provide a briefing to members. The slide deck is attached.

¹ The staff prepares Board meeting materials to facilitate discussion of issues at the Board meeting. This material is presented for discussion purposes only; it is not intended to reflect authoritative views of the FASAB or its staff. Official positions of the FASAB are determined only after extensive due process and deliberations.
At the meeting, Mike Willis, partner, and Benjamin Fischer, Senior Associate, will brief the Board. (Note that Joseph Kull, former OMB deputy controller and FASAB member presently with PWc, has been invited as well and will join us if his schedule permits.)

Our speakers have extensive experience with XBRL and welcome your questions. Brief bios are provided below.

**Mike Willis** has more than 26 years of accounting and auditing experience and is a partner with PricewaterhouseCoopers. Mike served as the Founding Chairman of XBRL International ([http://www.xbrl.org](http://www.xbrl.org)), which is currently composed of more than 600 leading software, accounting and finance companies from 30 countries around the world. Mike has served in a number of roles within the XBRL community and currently serves on the International Steering Committee as Chairman. XBRL is an international information format standard designed to dramatically enhance business reporting supply chain processes benefiting preparers, distributors, aggregators and consumers of this information. He speaks frequently, publishes papers and blogs on the topic of business reporting. Mike has been interviewed for or published articles in a range of business periodicals on the topic of a more efficient business reporting supply chain including the Harvard Business Review, Financial Times, Business Week, Wall Street & Technology, CFO Magazine, and CIO Magazine.

**Ben Fischer** is a member of PwC's Data Solutions practice which specializes in extracting value from data and turning it into actionable information.

He has experience with the following:
- Business Intelligence and Data Analytics
- Database and query development and optimization
- Process Automation and Optimization
- Computer Aided Auditing Techniques (Internal and External Audit Analytics)
- ERP implementation support (data conversion, validation and reconciliation)

If you have questions before the meeting, please call me at 202.512.7357.
FASAB Briefing

‘Intelligent Data’

August 27, 2014
**Discussion topics**

How does standardized data enhance current common processes?
What is XBRL and why is it relevant?
How does an XBRL Taxonomy work? What does it do?
Are there governance considerations relevant to Taxonomy development and maintenance?
What are Taxonomy 'best practices'? and potential benefits?
We already have the USSGL - why do we need Intelligent Data?
How 'interactive' does Intelligent Data make data?
Q&A
How does standardized data enhance current common processes?

Current Software Centric

- Focus on proprietary software where:
  - Data is resident in software siloes and is difficult to share and drill down across silos
  - Data quality is governed by validations executed by consumers
  - Data is pushed to the consumer in reports determined by the software
  - Sharing across silo systems is largely manual

Data Centric

- Focus on standardized data enabling:
  - Better communication, transparency and access across systems
  - Enhanced data quality with standardized validations executed at the source
  - Standardized reusable reporting templates pulling data from disparate source systems
  - Standardized IP enables collaboration and automation across systems driving viral adoption
Today’s Common Pain Points (Software Centric)

- Software Focused
- Manual Steps
- Duplicative Sources
- Poor Data Quality
- High Cost for Custom Reporting
- Resources required for maintenance and / or change
Tomorrow’s Process Enhancements (Data Centric)

- Transparency
- Data Quality
- Standardized
- Timely
- Efficiencies
- Collaborative / Reusable
- Standardized
- Business Rules
- Source Validation
- Drill Down and Across
- Pull versus Push
- “Source of Truth”
What is XBRL and why is it relevant?

International Standard for the digital expression of economic and accounting concepts both numeric and narrative

A worldwide consortium of market participants in the ‘supply chain’

Only international standard for accounting and economic concepts

Freely available open standardized language used in countries around the world

Consortia publishing and encouraging development of standardized, agreed-upon taxonomies representing Ledgers (general and transaction ledgers) and underlying ERP data, IFRS and local GAAP concepts, tax concepts, Basel & Solvency concepts, and many others

Enables digital migration and interoperability across software applications

XBRL is used within the Treasury DATA Act prototype; XBRL has not yet been formally selected as the standard for reporting under the DATA Act.
How does an XBRL Taxonomy work? What does it do?

Various Constructs:
- Multi dimensional data representations
- Vocabularies (taxonomies)
- Aliases and other definition relationships
- Mathematical relationships between concepts
- Flexibility about how to present items to users
- Structure for authoritative policies and guidance
- Building blocks ("discoverable taxonomy sets")
- Capacity to create your own sets of relationships (data owner etc)

Definitions related to Liquid Assets

Label
Гроші та їх еквіваленти

Presentation
Place after Current Assets

Calculations
Cash = Currency + Deposits

Contexts
USD
FY2015
Budgeted

Formulas
Cash ≥ 0

References
GAAP I.2.(a)
CoA 1100

Mathematical relationships
between concepts
Flexibility about how to present items to users
Structure for authoritative policies and guidance
Building blocks ("discoverable taxonomy sets")
Capacity to create your own sets of relationships (data owner etc)
2014 US GAAP Taxonomy – (a walk through)
### Taxonomy – Explicit Connection from Reported Disclosures to Educational Resources

**MARRIOTT INTERNATIONAL INC/MD (Filer) CIK: 0001048286**

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>In Millions, unless otherwise specified</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Current assets</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash and equivalents</td>
<td>5,125</td>
<td>5,330</td>
</tr>
<tr>
<td>Accounts and notes receivable, net (1)</td>
<td>1,081</td>
<td>1,028</td>
</tr>
<tr>
<td>Current deferred taxes, net</td>
<td>252</td>
<td>260</td>
</tr>
<tr>
<td>Prepaid expenses</td>
<td>67</td>
<td>57</td>
</tr>
<tr>
<td>Other</td>
<td>27</td>
<td>22</td>
</tr>
<tr>
<td><strong>Assets held for sale</strong></td>
<td></td>
<td></td>
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<tr>
<td>Notes receivable, net (1)</td>
<td>350</td>
<td>0</td>
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<tr>
<td>Accounts receivable, net (1)</td>
<td>1,903</td>
<td>1,475</td>
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<tr>
<td>Property and equipment</td>
<td>1,543</td>
<td>1,538</td>
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<tr>
<td><strong>Intangible assets</strong></td>
<td></td>
<td></td>
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<tr>
<td>Goodwill</td>
<td>674</td>
<td>674</td>
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<tr>
<td>Contract acquisition costs and other (1)</td>
<td>1,131</td>
<td>1,115</td>
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<tr>
<td>Goodwill and Intangible Assets, Net, Total</td>
<td>2,005</td>
<td>1,989</td>
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<tr>
<td><strong>Equity and cost method investments (1)</strong></td>
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<tr>
<td>Equity and cost method investments (1)</td>
<td>222</td>
<td>216</td>
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<tr>
<td>Notes receivable, net (1)</td>
<td>142</td>
<td>160</td>
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<tr>
<td>Deferred taxes, net (1)</td>
<td>647</td>
<td>676</td>
</tr>
<tr>
<td>Other (1)</td>
<td>332</td>
<td>287</td>
</tr>
<tr>
<td><strong>Total Assets</strong></td>
<td>6,794</td>
<td>6,342</td>
</tr>
<tr>
<td><strong>Current liabilities</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current portion of long-term debt</td>
<td>8</td>
<td>407</td>
</tr>
<tr>
<td>Accounts payable (1)</td>
<td>557</td>
<td>560</td>
</tr>
<tr>
<td>Accrued payroll and benefits</td>
<td>817</td>
<td>745</td>
</tr>
<tr>
<td>Liability for guest loyalty programs</td>
<td>666</td>
<td>563</td>
</tr>
<tr>
<td>Other (1)</td>
<td>629</td>
<td>459</td>
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<tr>
<td>Liabilities, Current, Total</td>
<td>2,675</td>
<td>2,773</td>
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<tr>
<td>Long-term debt</td>
<td>3,147</td>
<td>2,526</td>
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</tbody>
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*Note: The table above is a financial statement from Marriott International Inc. It includes various assets and liabilities as of Dec. 31, 2013 and Dec. 28, 2012. The table is used to demonstrate the connection between financial statements and educational resources.*
Are there governance considerations relevant to Taxonomy development and maintenance?

Taxonomy Scope

Governance (Collaboration)
  Model
  Industry and/or Specialty areas

Reusable concepts

Versioning

Alignment with ASUs

References
What are Taxonomy 'best practices'? and potential benefits?

FAF/FASB XBRL Taxonomy Role

Taxonomy Annual Update Process

Accounting Standards Updates Taxonomy Changes

DEVELOPMENT US GAAP Financial Reporting Taxonomy

Taxonomy Advisory Group (TAG)

XBRL Industry Resource Group(s) currently include: Insurance; Banking / Financial Services; Federal Home Loan Banks; Oil and Gas; Airlines; Real Estate.

2014 US GAAP Financial Reporting Taxonomy
We already have the USSGL - why do we need Intelligent Data?

USSGL is the GL standard used by Agencies
Each Agency implements the USSGL within their own software systems
USSGL implementations across software applications within an Agency and across Agencies are different thereby inhibiting communication between systems
Representing the USSGL as an XBRL Taxonomy provides for use of common language across all systems
Mapping the USSGL XBRL Taxonomy to any ERP instance does not require changes to the ERP instance
Enabling all Agency GL systems in a common language enables enhanced communication
How ‘Interactive’ does ‘Intelligent Data’ make data?

Demo’s
- Mapping using USSGL
- Reporting
- Drill down
- Visualization
- ‘Pull analytics’
- Collaborative analytics
- And others
Mapping – Source to Standardized USSGL

<table>
<thead>
<tr>
<th>Agency Financial System</th>
<th>USSGL Standard</th>
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<tbody>
<tr>
<td>Org</td>
<td>Organization</td>
</tr>
<tr>
<td>Allocation_xfer_Agency_ID</td>
<td>Allocation Transfer Agency ID</td>
</tr>
<tr>
<td>Beg_POA</td>
<td>Fiscal Period</td>
</tr>
<tr>
<td>End_POA</td>
<td>Year</td>
</tr>
<tr>
<td>Mainaccountcode</td>
<td>Month</td>
</tr>
<tr>
<td>Sub_acctcode</td>
<td>Fiscal Period</td>
</tr>
<tr>
<td>FY</td>
<td>Period of Availability</td>
</tr>
<tr>
<td>Fiscal_month</td>
<td>Beginning</td>
</tr>
<tr>
<td>...</td>
<td>Ending</td>
</tr>
<tr>
<td></td>
<td>Main Account Code</td>
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<tr>
<td></td>
<td>Sub Account Code</td>
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<tr>
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<td>...</td>
</tr>
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## Reporting

### Fund Description: 20 0560-Administering the Public Debt

<table>
<thead>
<tr>
<th>Line #</th>
<th>Description</th>
<th>Period Ended: 2012-09-30</th>
<th>Period Ended: 2011-09-30</th>
</tr>
</thead>
<tbody>
<tr>
<td>1100</td>
<td>Appropriation</td>
<td>171,135,618.82</td>
<td>181,087,025.71</td>
</tr>
<tr>
<td>1120</td>
<td>Appropriations transferred to other accounts (disc.)</td>
<td>-10,000,000.00</td>
<td>-5,492,700.00</td>
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<tr>
<td>1130</td>
<td>Appropriations permanently reduced (disc.)</td>
<td>0.00</td>
<td>-349,970.00</td>
</tr>
<tr>
<td>1160</td>
<td>Appropriation (total)</td>
<td>161,135,618.82</td>
<td>175,244,355.71</td>
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<tr>
<td>1700</td>
<td>Appropriation</td>
<td>26,022,826.00</td>
<td>26,161,339.67</td>
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<tr>
<td>1701</td>
<td>Appropriation</td>
<td>0.00</td>
<td>0.00</td>
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<tr>
<td>1750</td>
<td>Appropriation</td>
<td>26,022,826.00</td>
<td>26,161,339.57</td>
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<tr>
<td>1900</td>
<td>Budget authority total (discretionary and mandatory)</td>
<td>187,158,444.82</td>
<td>201,405,695.28</td>
</tr>
</tbody>
</table>

### Total Budgetary Resources

<table>
<thead>
<tr>
<th>Line #</th>
<th>Total Budgetary Resources</th>
<th>Period Ended: 187,158,444.82</th>
<th>Period Ended: 201,405,695.28</th>
</tr>
</thead>
</table>

## Status of Budgetary Resources

### Budget Authority:

<table>
<thead>
<tr>
<th>Line #</th>
<th>Category 6 (by project)</th>
<th>Period Ended: 157,308,672.05</th>
<th>Period Ended: 168,812,243.54</th>
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</thead>
<tbody>
<tr>
<td>9034</td>
<td>Budget Obligations Total</td>
<td>157,308,672.05</td>
<td>168,812,243.54</td>
</tr>
</tbody>
</table>
Data Centric Enables ‘Drill Down to Source’

2002 - Direct Obligations Incurred Detail

2490 - Unobligated balance, end of year Detail
US SEC
Transparency enabling insights
Consumption Example - XBRLAnalyst

Comparisons

Historical Data

Dimensional Data

Standardized Data and Formulas enable these type of ‘pull’ reports to be generated in a few seconds from disparate sources.
Q&A
Thank You!

Key Contacts:

- Don McCrory – 571-235-5253
- Mike Willis – 813-340-0932
- Joe Kull – 703-969-3527
- Jim Dreyer – 386-334-5607
- Joe Gulisano – 813-528-3099
- Ben Fischer – 301-471-6199