



# **Keynote® Data Feed XML Edition**

## **User Guide**

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## Introduction

This document provides technical details and usage suggestions for users of Keynote DataFeed XML Edition.

Using DataFeed XML Edition, you can retrieve, then store and analyze your Keynote data with your own software analysis tools.

Data Feed XML Edition provides you with output files of your measurement data generated on 24-hour and/or 15-minute cycles. It enables you to retrieve your data in XML format. The DTD for Data Feed XML Edition is described later in this document.

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## File Location and Directory Structure

You can retrieve your Data Feed XML Edition data using a browser or using an automated process. The location and path to access your data with Data Feed XML Edition is

<https://datafeed.keynote.com/private/<agreement-id>>

(where *agreement-id* is your agreement number. To access these files, customers are required to provide the agreement number and a special password provided by Keynote.

**Note:** Your agreement number should be considered proprietary information and should not be shared with anyone outside your organization. You will also be prompted to enter your user authentication which consists of a login and password, which you should receive when signing up for the XML DataFeed.

The output files are stored under the following directory structure:

**private**

→ **<agreement-id (Your agreement id)>**

→ **<service name--trans, streaming, map>**

→ **xml**

→ **daily** (for 24-hour cycles)

→ **<date\_stamped\_files>**

→ **<date\_stamped\_files>**

→ **<date\_stamped\_files>**

→ **latest** (for 15-minute cycles)

→ **<date\_time\_stamped\_files>**

→ **<date\_time\_stamped\_files>**

→ **<date\_time\_stamped\_files>**

<agreement-id> is the numeric agreement identifier under which all measurements are provisioned. <date\_stamped\_files> and <date\_time\_stamped\_files> represent multiple files contained in the respective directories.

# Transaction Perspective and Application Perspective

## XML Data Elements

This table describes the measurement data elements for Transaction Perspective and Application Perspective measurements.

|  |  |
|--|--|
| <b>ELEMENT: TXN_DATA_FEED</b><br>Consists of 0 or more TXN_MEASUREMENT elements. |  |
| <b>ELEMENT: TXN_META_DATA</b><br>Description of measurement                      |  |
| ATTRIBUTES   |  |
| <b>agent</b>   | The numeric designation of the Keynote agent location taking the measurement.  |
| <b>slot</b>  | The Keynote numeric designation of the measurement.  |
| <b>datetime</b>  | Identifies when the measurement was taken, the time zone is GMT.   |
| <b>target</b>  | The numeric designation(unique identifier) of script being used for measurement  |
| <b>agent_inst</b>  | The numeric designation of a specific agent instance within an agent location taking measurements. (Used internally by Keynote for load balancing purposes.)                           |
| <b>profile</b>   | The numeric designation of connection properties on which measurement was taken by keynote agent computer. Details of its properties are described in profile_meta_data element below. |
| <b>ELEMENT: AGENT_META_DATA</b><br>Description of agent                          |  |
| ATTRIBUTES   |  |
| <b>agent_id</b>  | The numeric designation of the Keynote agent location taking the measurement.  |
| <b>description</b>   | The Name of the Keynote agent location taking the measurement.   |
| <b>weight</b>  | Deprecated   |

|   |   |
|---|---|
| <b>ip</b>   | IP address of Keynote agent computer taking measurement   |
| <b>backbone</b>   | The name of the ISP used by an agent computer to take measurements. This property will be only present if profile is blank meaning there is no profile information for agent.             |
| <b>instance_id</b>  | Another name for agent_inst. The numeric designation of a specific agent instance within an agent location taking measurements. (Used internally by Keynote for load balancing purposes.) |
| <b>city</b>   | City in which agent computer is located   |
| <b>country</b>  | Country in which agent computer is located  |
| ELEMENT: <b>SLOT_META_DATA</b><br>Each instance represents a specific transaction measurement.              |   |
| ATTRIBUTES  |   |
| <b>slot_id</b>  | Unique ID to describe a measurement setup for user  |
| <b>slot_alias</b>   | Name of measurement   |
| <b>pages</b>  | Number of pages in measurement script   |
| <b>subservice</b>   | The type of engine being used to measure. Example: TxP means Transaction Perspective engine and ApP means application perspective engine  |
| ELEMENT: <b>PAGE_META_DATA</b><br>Each instance represents a specific transaction measurement script steps. |   |
| ATTRIBUTES  |   |
| <b>page_alias</b>   | Script step name  |
| <b>page_seq</b>   | Script step ID  |
| ELEMENT: <b>PROFILE_META_DATA</b>   |   |
| ATTRIBUTES  |   |
| <b>access_sub_type</b>  | Connection sub type used by agent computer,   |

|  |  |
|--|--|
|  | Example, 56K   |
| <b>profile_name</b>  | Used internally by Keynote when setting up measurement agent computers on broadband or dialup connections.   |
| <b>access_type</b>   | Connection type used by agent computer, Example: Dialup  |
| <b>provider</b>  | Provider for connection, like EarthLink  |
| <b>profile_id</b>  | Unique id for the connection used  |
| ELEMENT: <b>TXN_MEASUREMENT</b><br>Each instance represents a specific transaction data point. |  |
| ATTRIBUTES   |  |
| <b>slot</b>  | Keynote identification for the measurement   |
| <b>agent</b>   | Keynote identification for which agent took the measurement.   |
| <b>agent_inst</b>  | The numeric designation of a specific agent instance within an agent location taking measurements. (Used internally by Keynote for load balancing purposes.) |
| <b>datetime</b>  | This field identifies when the measurement was taken, the time zone is GMT.  |
| <b>target</b>  | The unique id of script part of measurement. Used internally by Keynote to manage capacity. Target ID numbers are subject to change without notice.          |
| <b>profile</b>   | Whether the transaction uses a virtual profile. 1=Yes, 0=no.   |
| ELEMENT: <b>TXN_SUMMARY</b>  |  |
| ATTRIBUTES   |  |
| <b>bandwidth_kbsec</b>   | Average data transfer rate measured in kilobits per seconds, of all data transferred from the first byte of a file to the final byte of the file.            |
| <b>browser_errs</b>  | The number of JavaScript errors that the browser encountered on all pages during the execution of the transaction.   |

|  |   |
|--|---|
| <b>connection_count</b>  | Number of connections used during download.   |
| <b>content_errors</b>  | The total number of content errors in the transaction. Content errors are errors while retrieving page elements and are non-fatal to the transaction.   |
| <b>delta_msec</b>  | The time to complete the full page, measured from the time the navigation started until the time the last resource was fetched. Because Internet Explorer uses multiple connections to fetch the resources, the sum of the times for download of all resources could be larger than the full-page download. This component does not include resources that are used by the page but cached locally and thus not downloaded in the current session. This is the field used by default by Keynote's services to report on download times. |
| <b>delta_user_msec</b>   | The user experience full page time as reported by Internet Explorer. This is considered an alternate method of measuring download times. In simple terms, it measures how long it took for Internet Explorer to report "Done" in the status bar.  |
| <b>domain_count</b>  | Number of domains from which content was served.  |
| <b>estimated_cache_delta_msec</b>                                      | Estimated network overall download time if cached elements were not downloaded (normally is the case for first page of a transaction).  |
| <b>privacy_cookies_count</b>   | Total number of received 3rd party cookies for the transaction – sum of all pages. If no cookies are received the value is NULL. Included all types of cookies, supported by the engine: HTTP cookies, Flash cookies, etc.  |
| <b>trans_level_comp_msec</b>   | Custom component time at transaction level  |
| ELEMENT: <b>TXN_DIALER</b><br>Measurement data for dialup measurements |   |
| ATTRIBUTES   |   |
| <b>setup_msec</b>  | Time taken in establishing dialup connection, present for dialup connection   |
| <b>speed</b>   | Speed used by dialup modem, present only for dialup connection  |
| <b>attempts</b>  | No of attempts to establish dialup connection, present  |



|                                      |   |
|--------------------------------------|---|
|                                      | only for dialup connection  |
| <b>phone_number</b>                  | Phone number used to dial in by model, present only for dialup connection   |
| ELEMENT: <b>TXN_ERROR</b>            |   |
| ATTRIBUTES                           |   |
| <b>code</b>                          | Contains an error code, if any, recorded for a measurement. The attribute, and the TXN_ERROR element, may be missing if the value is null. Null and zero values are both indicative of successful measurements. |
| <b>page</b>                          | In the case of a page level error, this field contains the erroneous page's number. The error code is in Error_Code.  |
| ELEMENT: <b>TXN_PAGE</b>             |   |
| ATTRIBUTES                           |   |
| <b>page_seq</b>                      | Identifies which step of the transaction script the data is associated with.  |
| ELEMENT: <b>TXN_PAGE_PERFORMANCE</b> |   |
| ATTRIBUTESxx                         |   |
| <b>bandwidth_kbsec</b>               | Average data transfer rate measured in kilobits per seconds, of all data transferred from the first byte of a file to the final byte of the file.   |
| <b>browser_errs</b>                  | The number of JavaScript errors that the browser encountered on all pages during the execution of the transaction.  |
| <b>connect_delta</b>                 | The connection time of the base page resource, if presented.  |
| <b>connection_count</b>              | Number of HTTP connections.   |
| <b>custom_component_1_msec</b>       | This is custom component 1 at page level.   |
| <b>custom_component_2_msec</b>       | This is custom component 2 at page level.   |
| <b>custom_component_3_msec</b>       | This is custom component 3 at page level.   |

|                                   |  |
|-----------------------------------|--|
| <b>delta_msec</b>                 | The time to complete the full page, measured from the time the navigation started until the time the last resource was fetched. Because Internet Explorer uses multiple connections to fetch the resources, the sum of the times for download of all resources could be larger than the full-page download. This component does not include resources that are used by the page, but cached locally and thus not downloaded in the current session. This is the field used by default by Keynote's services to report on download times. |
| <b>delta_user_msec</b>            | The user experience full page time as reported by Internet Explorer. This is considered an alternate method of measuring download times. In simple terms, it measures how long it took for Internet Explorer to report "Done" in the status bar.   |
| <b>dns_lookup_msec</b>            | The time spent resolving the DNS name to an IP address.  |
| <b>dom_complete_msec</b>          | How long the measurement was running when the browser finished processing the DOM for the current page. This is the domComplete attribute of the Navigation Timing specification.  |
| <b>dom_content_load_time</b>      | This is how long the measurement was running when the browser finished processing the DOM for the current page. This is the domComplete attribute of the Navigation Timing specification.  |
| <b>dom_interactive_msec</b>       | How long in milliseconds the measurement was running when the user could start to interact with the current page in the browser. This is the domInteractive attribute of the Navigation Timing specification.  |
| <b>domain_count</b>               | The number of unique domains resolutions (DNS requests) in the transaction. If the metric is not reported, the value is NULL. The value is the sum of all pages domains resolutions.   |
| <b>estimated_cache_delta_msec</b> | This is estimated network overall download time if cached elements were not downloaded at page level (normally the case for first page).   |
| <b>first_byte_msec</b>            | Once the connection is set up, the agent will request data from the server with an HTTP Get command. This Time to First Byte measurement is the amount of time from when the agent starts its initial connection setup until it sees the first byte back from the server.  |
| <b>first_packet_delta</b>         | The time to first packet of the base page resource.  |

|                                 |  |
|---------------------------------|--|
| <b>ms_first_paint_msec</b>      | How long in milliseconds the measurement was running when the browser started displaying the current page.   |
| <b>privacy_cookies_count</b>    | Total number of received 3rd party cookies for the transaction – sum of all pages. If no cookies are received the value is NULL. Included all types of cookies, supported by the engine: HTTP cookies, Flash cookies, etc. |
| <b>remain_packets_delta</b>     | Time to download the remaining packets after the first packet.   |
| <b>request_delta</b>            | The base page request time.  |
| <b>ssl_handshake_delta</b>      | The base page SSL time.  |
| <b>start_msec</b>               | The start time offset of a page from the beginning of download of the transaction. The first page offset is always 0.  |
| <b>system_delta</b>             | The total time spent fetching the resource, excluding the time spent for interaction with the network.   |
| <b>ELEMENT: TXN_PAGE_OBJECT</b> |  |
| ATTRIBUTES                      |  |
| <b>element_count</b>            | The number of elements in the page, including base page.   |
| <b>redir_delta</b>              | The total redirect time of the base page, if present.  |
| <b>redir_count</b>              | The number of redirects of the base page, if presented.  |
| <b>page_bytes</b>               | Byte size of the content.  |
| <b>ELEMENT: TXN_PAGE_STATUS</b> |  |
| ATTRIBUTES                      |  |
| <b>content_errors</b>           | The total number of content errors in the transaction. Content errors are errors while retrieving page elements and are non-fatal to the transaction.  |
| <b>error_code</b>               | Contains an error code, if any, recorded for a given page of a measurement. Null and zero values are both  |

|  |  |
|--|--|
|  | indicative of successful measurements.   |
| <b>ELEMENT: TXN_DETAIL_PERFORMANCE</b> |  |
| ATTRIBUTES                             |  |
| <b>start_msec</b>                      | The start time offset of a page element from the beginning of download of the transaction. The first page element off set is always 0. |
| <b>system_delta</b>                    | The total time spent fetching the page element, excluding the time spent for interaction with the network.                             |
| <b>connect_delta</b>                   | The connection time of the element, if presented.  |
| <b>dns_delta</b>                       | DNS time for the element.  |
| <b>element_delta</b>                   | Total download time for a page element (much like measurement_network).  |
| <b>first_packet_delta</b>              | The time to first packet of the page element.  |
| <b>request_delta</b>                   | The page element request time.   |
| <b>remain_packets_delta</b>            | The time to download the rest of the packets for the page element.   |
| <b>ssl_handshake_delta</b>             | The page element SSL time.   |
| <b>detail_component_1_msec</b>         | This is custom component 1 at element level.   |
| <b>detail_component_2_msec</b>         | This is custom component 2 at element level.   |
| <b>detail_component_3_msec</b>         | This is custom component 3 at element level.   |
| <b>msmt_conn_id</b>                    | This is unique id captured by agent which differentiates one browser (http connection) from another.                                   |
| <b>element_cached</b>                  | Indicates if this element was cached and did not get downloaded.   |
| <b>custom_object_trend</b>             | A custom grouping of elements based on user-defined characteristics for a specific element.  |

**ELEMENT: TXN\_DETAIL\_OBJECT**

Present when there is a content error or redirection, and for all premium mode measurements.

For Application Perspective measurements, this element will always be present for the base page.

**ATTRIBUTES**

|                         |  |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
|-------------------------|--|---|------------------|---|--------------------------|---|--------------------------|---|-----------------|---|-----------------|---|------------------------|---|-----------------|---|---------------------|---|------------------------|---|--------------------|----|-------------------|----|-------------------|----|--------------------|----|--------------------|----|-------------------|----|--------------------------|----|---------------------|----|-------------------|----|----------------------|----|--------------------------|----|------------------|----|--------------------|----|-----------------------|----|----------------------|----|-------------------|----|-------------------|----|-------------------|----|-----------------------|----|---------------------|
| <b>conn_string_text</b> | The page element's protocol, plus host name, plus port number.   |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| <b>content_type</b>     | <p>The type of content (for example, Gif, Java, etc.) returned by the agent either as a type code or as a string as reported by the content. These content_type codes may be reported:</p> <table><tr><td>0</td><td>application/java</td></tr><tr><td>1</td><td>application/mac-binhex40</td></tr><tr><td>2</td><td>application/octet-stream</td></tr><tr><td>3</td><td>application/oda</td></tr><tr><td>4</td><td>application/pdf</td></tr><tr><td>5</td><td>application/postscript</td></tr><tr><td>6</td><td>application/rtf</td></tr><tr><td>7</td><td>application/x-bcpio</td></tr><tr><td>8</td><td>application/x-compress</td></tr><tr><td>9</td><td>application/x-cpio</td></tr><tr><td>10</td><td>application/x-csh</td></tr><tr><td>11</td><td>application/x-dvi</td></tr><tr><td>12</td><td>application/x-gtar</td></tr><tr><td>13</td><td>application/x-gzip</td></tr><tr><td>14</td><td>application/x-hdf</td></tr><tr><td>15</td><td>application/x-javascript</td></tr><tr><td>16</td><td>application/x-latex</td></tr><tr><td>17</td><td>application/x-mif</td></tr><tr><td>18</td><td>application/x-netcdf</td></tr><tr><td>19</td><td>application/x-postscript</td></tr><tr><td>20</td><td>application/x-sh</td></tr><tr><td>21</td><td>application/x-shar</td></tr><tr><td>22</td><td>application/x-sv4cpio</td></tr><tr><td>23</td><td>application/x-sv4crc</td></tr><tr><td>24</td><td>application/x-tar</td></tr><tr><td>25</td><td>application/x-tcl</td></tr><tr><td>26</td><td>application/x-tex</td></tr><tr><td>27</td><td>application/x-texinfo</td></tr><tr><td>28</td><td>application/x-troff</td></tr></table> | 0 | application/java | 1 | application/mac-binhex40 | 2 | application/octet-stream | 3 | application/oda | 4 | application/pdf | 5 | application/postscript | 6 | application/rtf | 7 | application/x-bcpio | 8 | application/x-compress | 9 | application/x-cpio | 10 | application/x-csh | 11 | application/x-dvi | 12 | application/x-gtar | 13 | application/x-gzip | 14 | application/x-hdf | 15 | application/x-javascript | 16 | application/x-latex | 17 | application/x-mif | 18 | application/x-netcdf | 19 | application/x-postscript | 20 | application/x-sh | 21 | application/x-shar | 22 | application/x-sv4cpio | 23 | application/x-sv4crc | 24 | application/x-tar | 25 | application/x-tcl | 26 | application/x-tex | 27 | application/x-texinfo | 28 | application/x-troff |
| 0                       | application/java   |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 1                       | application/mac-binhex40   |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 2                       | application/octet-stream   |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 3                       | application/oda  |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 4                       | application/pdf  |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 5                       | application/postscript   |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 6                       | application/rtf  |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 7                       | application/x-bcpio  |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 8                       | application/x-compress   |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 9                       | application/x-cpio   |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 10                      | application/x-csh  |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 11                      | application/x-dvi  |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 12                      | application/x-gtar   |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 13                      | application/x-gzip   |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 14                      | application/x-hdf  |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 15                      | application/x-javascript   |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 16                      | application/x-latex  |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 17                      | application/x-mif  |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 18                      | application/x-netcdf   |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 19                      | application/x-postscript   |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 20                      | application/x-sh   |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 21                      | application/x-shar   |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 22                      | application/x-sv4cpio  |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 23                      | application/x-sv4crc   |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 24                      | application/x-tar  |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 25                      | application/x-tcl  |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 26                      | application/x-tex  |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 27                      | application/x-texinfo  |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |
| 28                      | application/x-troff  |   |                  |   |                          |   |                          |   |                 |   |                 |   |                        |   |                 |   |                     |   |                        |   |                    |    |                   |    |                   |    |                    |    |                    |    |                   |    |                          |    |                     |    |                   |    |                      |    |                          |    |                  |    |                    |    |                       |    |                      |    |                   |    |                   |    |                   |    |                       |    |                     |

|    |                               |
|----|-------------------------------|
| 29 | application/x-troff-man       |
| 30 | application/x-troff-me        |
| 31 | application/x-ustar           |
| 32 | application/x-wais-source     |
| 33 | application/x-x509-ca-cert    |
| 34 | application/zip               |
| 35 | audio/basic                   |
| 36 | audio/x-aiff                  |
| 37 | audio/x-wav                   |
| 38 | image/gif                     |
| 39 | image/ief                     |
| 40 | image/jpeg                    |
| 41 | image/tiff                    |
| 42 | image/x-cmu-raster            |
| 43 | image/x-portable-anymap       |
| 44 | image/x-portable-bitmap       |
| 45 | image/x-portable-graymap      |
| 46 | image/x-portable-pixmap       |
| 47 | image/x-rgb                   |
| 48 | image/x-xbitmap               |
| 49 | image/x-xpixmap               |
| 50 | image/x-xwindowdump           |
| 51 | text/html                     |
| 52 | text/plain                    |
| 53 | text/richtext                 |
| 54 | text/tab-separated-values     |
| 55 | text/x-setext                 |
| 56 | video/mpeg                    |
| 57 | video/mpeg2                   |
| 58 | video/quicktime               |
| 59 | video/x-msvideo               |
| 60 | video/x-rad-screenplay        |
| 61 | video/x-sgi-movie             |
| 62 | x-world/x-vrml                |
| 63 | application/x-shockwave-flash |
| 64 | app/fireclick.x-hint.1        |
| 65 | application/javascript        |
| 66 | application/x-pointplus       |
| 67 | dynamo-internal/forbidden     |
| 68 | image/bmp                     |
| 69 | image/pjpeg                   |
| 70 | image/png                     |
| 71 | multipart/x-byteranges        |
| 72 | text/css                      |

|                            |   |                  |
|----------------------------|---|------------------|
|                            | 73  | text/javascript  |
|                            | 74  | text/js          |
|                            | 75  | text/vbscript    |
|                            | 76  | text/vnd.wap.wml |
|                            | 77  | text/x-component |
|                            | 78  | text/xml         |
|                            | 79  | www/unknown      |
|                            | 1000  | UNKNOWN          |
|                            | 1001  | FRAME            |
|                            | 1002  | REDIRECT         |
|                            | 1003  | METAREFRESH      |
| content_bytes              | Byte size of the content.   |                  |
| element_cached             | Indicates if this element was cached and did not get downloaded. 1=cached.  |                  |
| header_bytes               | Byte size of the header.  |                  |
| header_code                | Provides additional information about the HTML request/response, most frequently about whether the body is compressed.              |                  |
| request_bytes              | Byte size of the request call.  |                  |
| ip_address                 | IP address of the page or page element.   |                  |
| object_text                | The page element's path and document name.  |                  |
| ELEMENT: TXN_DETAIL_STATUS |   |                  |
| ATTRIBUTES                 |   |                  |
| error_code                 | Contains an error code for the first page in the transaction that has a page level error. The page's number is shown in Error_Page. |                  |
| status_code                | Non-error information reported by the agent.  |                  |
| ELEMENT: TXN_PAGE_DETAILS  |   |                  |
| ATTRIBUTES                 |   |                  |
| page                       | In the case of a page level error, this field contains the erroneous page's number. The error code is in ErrorCode.                 |                  |

|  |  |
|--|--|
| <b>ELEMENT: TXN_DETAIL_ERROR</b><br>Represents a transaction playback error record. This element is sent when there was an error that caused the playback engine to abort the transaction. This would usually be caused by changes to the page after recording the script.   |  |
| ATTRIBUTES   |  |
| <b>record_seq</b>  | The error's sequence id.   |
| <b>url</b>   | Location of page with error.   |
| <b>title</b>   | Title of the page.   |
| <b>html_element_text</b>   | Outer HTML text (For example: <input size=30 name=p>).                                   |
| <b>error_text</b>  | Page Error String (For example: Page Not found).   |
| <b>ELEMENT: TXN_REDIRECT</b><br>Represents a redirect detail record. Page-level redirects are sent whenever a redirect occurs. There can be zero or more redirects associated with each page of the transaction. There can also be redirect elements associated with page content (elements), however, these redirects are only sent when there is a content error detected on the page. |  |
| ATTRIBUTES   |  |
| <b>record_seq</b>  | The redirect's sequence id.  |
| <b>record_subseq</b>   | The redirection sequence of specific element. If there is no redirection the value is 0. |
| <b>ELEMENT: TXN_BASE_PAGE</b><br>Represents a base page detail record. There will be exactly one of these elements present (per page). However, this element is only sent if a Content Error occurred on the page.   |  |
| ATTRIBUTES   |  |
| <b>record_seq</b>  | The base page's sequence id.   |
| <b>ELEMENT: TXN_PAGE_ELEMENT</b><br>Represents a page element detail record. There can be zero or more of these elements representing content on the page. However, these elements are only sent if there was at least one content error on the page.  |  |
| ATTRIBUTES   |  |
| <b>record_seq</b>  | The page element's sequence id.  |



## DTD for Keynote XML Datafeed

```
<!ELEMENT TXN_DATA_FEED (TXN_META_DATA?,DP_TXN_MEASUREMENTS?) >
<!ELEMENT TXN_META_DATA (AGENT_META_DATA*,
SLOT_META_DATA*,PROFILE_META_DATA?) >
<!ATTLIST TXN_META_DATA agreement_id          CDATA #REQUIRED >
<!ELEMENT AGENT_META_DATA EMPTY >
<!ATTLIST AGENT_META_DATA agent_id            CDATA #REQUIRED >
<!ATTLIST AGENT_META_DATA instance_id        CDATA #REQUIRED >
<!ATTLIST AGENT_META_DATA country            CDATA #REQUIRED >
<!ATTLIST AGENT_META_DATA description        CDATA #REQUIRED >
<!ATTLIST AGENT_META_DATA region             CDATA #REQUIRED >
<!ATTLIST AGENT_META_DATA ip                 CDATA #REQUIRED >
<!ATTLIST AGENT_META_DATA backbone           CDATA #REQUIRED >
<!ATTLIST AGENT_META_DATA weight             CDATA #REQUIRED >
<!ATTLIST AGENT_META_DATA city               CDATA #REQUIRED >

<!ELEMENT SLOT_META_DATA (PAGE_META_DATA* >
<!ATTLIST SLOT_META_DATA slot_id             CDATA #REQUIRED >
<!ATTLIST SLOT_META_DATA slot_alias          CDATA #REQUIRED >
<!ATTLIST SLOT_META_DATA pages               CDATA #REQUIRED >
<!ATTLIST SLOT_META_DATA subservice          CDATA #REQUIRED >

<!ELEMENT PAGE_META_DATA EMPTY >
<!ATTLIST PAGE_META_DATA page_url            CDATA #REQUIRED >
<!ATTLIST PAGE_META_DATA page_alias          CDATA #REQUIRED >
<!ATTLIST PAGE_META_DATA page_seq            CDATA #REQUIRED >

<!ELEMENT PROFILE_META_DATA EMPTY >
<!ATTLIST PROFILE_META_DATA profile_id       CDATA #REQUIRED >
<!ATTLIST PROFILE_META_DATA profile_name     CDATA #REQUIRED >
<!ATTLIST PROFILE_META_DATA provider         CDATA #REQUIRED >
<!ATTLIST PROFILE_META_DATA access_type      CDATA #REQUIRED >
<!ATTLIST PROFILE_META_DATA access_sub_type  CDATA #REQUIRED >

<!ELEMENT DP_TXN_MEASUREMENTS (TXN_MEASUREMENT*) >
<!ELEMENT TXN_MEASUREMENT
(TXN_SUMMARY,TXN_DIALER?,TXN_ERROR?,TXN_PAGE+) >
<!ATTLIST TXN_MEASUREMENT slot               CDATA #REQUIRED >
<!ATTLIST TXN_MEASUREMENT agent              CDATA #REQUIRED >
<!ATTLIST TXN_MEASUREMENT agent_inst         CDATA #REQUIRED >
<!ATTLIST TXN_MEASUREMENT datetime           CDATA #REQUIRED >
<!ATTLIST TXN_MEASUREMENT target             CDATA #REQUIRED >
<!ATTLIST TXN_MEASUREMENT profile            CDATA #IMPLIED >
<!ELEMENT TXN_SUMMARY EMPTY >
<!ATTLIST TXN_SUMMARY delta_user_msec         CDATA #IMPLIED >
<!ATTLIST TXN_SUMMARY delta_msec              CDATA #IMPLIED >
<!ATTLIST TXN_SUMMARY estimated_cache_delta_msec CDATA
#IMPLIED >
<!ATTLIST TXN_SUMMARY trans_level_comp_msec   CDATA #IMPLIED >
<!ATTLIST TXN_SUMMARY resp_bytes              CDATA #IMPLIED >
<!ATTLIST TXN_SUMMARY element_count           CDATA #IMPLIED >
<!ATTLIST TXN_SUMMARY content_errors          CDATA #IMPLIED >
<!ATTLIST TXN_SUMMARY bandwidth_kbsec        CDATA #IMPLIED >
<!ATTLIST TXN_SUMMARY domain_count            CDATA #IMPLIED >
<!ATTLIST TXN_SUMMARY connection_count        CDATA #IMPLIED >
<!ATTLIST TXN_SUMMARY browser_errs           CDATA #IMPLIED >
```

```

<!ELEMENT TXN_DIALER EMPTY >
<!ATTLIST TXN_DIALER setup_msec          CDATA #IMPLIED >
<!ATTLIST TXN_DIALER attempts           CDATA #IMPLIED >
<!ATTLIST TXN_DIALER speed              CDATA #IMPLIED >
<!ATTLIST TXN_DIALER phone_number       CDATA #IMPLIED >

<!ELEMENT TXN_ERROR (TXN_COUNT?) >
<!ATTLIST TXN_ERROR code                CDATA #REQUIRED >
<!ATTLIST TXN_ERROR page                CDATA #IMPLIED >

<!ELEMENT TXN_COUNT EMPTY >
<!ATTLIST TXN_COUNT value                CDATA #IMPLIED >

<!ELEMENT TXN_PAGE (TXN_PAGE_PERFORMANCE, TXN_PAGE_OBJECT,
TXN_PAGE_STATUS, TXN_PAGE_DETAILS?) >
<!ATTLIST TXN_PAGE page_seq              CDATA #REQUIRED >
<!ELEMENT TXN_PAGE_PERFORMANCE EMPTY >
<!ATTLIST TXN_PAGE_PERFORMANCE delta_msec          CDATA #IMPLIED >
<!ATTLIST TXN_PAGE_PERFORMANCE delta_user_msec    CDATA #IMPLIED >
<!ATTLIST TXN_PAGE_PERFORMANCE estimated_cache_delta_msec    CDATA
#IMPLIED >
<!ATTLIST TXN_PAGE_PERFORMANCE custom_component_1_msec    CDATA
#IMPLIED >
<!ATTLIST TXN_PAGE_PERFORMANCE custom_component_2_msec    CDATA
#IMPLIED >
<!ATTLIST TXN_PAGE_PERFORMANCE custom_component_3_msec    CDATA
#IMPLIED >
<!ATTLIST TXN_PAGE_PERFORMANCE start_msec          CDATA #IMPLIED >
<!ATTLIST TXN_PAGE_PERFORMANCE dns_lookup_msec     CDATA #IMPLIED >
<!ATTLIST TXN_PAGE_PERFORMANCE first_byte_msec     CDATA #IMPLIED >
<!ATTLIST TXN_PAGE_PERFORMANCE system_delta        CDATA #IMPLIED >
<!ATTLIST TXN_PAGE_PERFORMANCE connect_delta       CDATA #IMPLIED >
<!ATTLIST TXN_PAGE_PERFORMANCE first_packet_delta  CDATA #IMPLIED >
<!ATTLIST TXN_PAGE_PERFORMANCE ssl_handshake_delta CDATA #IMPLIED >
<!ATTLIST TXN_PAGE_PERFORMANCE request_delta       CDATA #IMPLIED >
<!ATTLIST TXN_PAGE_PERFORMANCE remain_packets_delta CDATA #IMPLIED >
<!ATTLIST TXN_PAGE_PERFORMANCE bandwidth_kbsec     CDATA #IMPLIED >
<!ATTLIST TXN_PAGE_PERFORMANCE privacy_cookies_count CDATA #IMPLIED >
<!ATTLIST TXN_PAGE_PERFORMANCE domain_count        CDATA #IMPLIED >
<!ATTLIST TXN_PAGE_PERFORMANCE connection_count    CDATA #IMPLIED >
<!ATTLIST TXN_PAGE_PERFORMANCE browser_errs       CDATA #IMPLIED >
<!ATTLIST TXN_PAGE_PERFORMANCE dom_unload_time     CDATA #IMPLIED >
<!ATTLIST TXN_PAGE_PERFORMANCE dom_interactive_msec CDATA #IMPLIED >
<!ATTLIST TXN_PAGE_PERFORMANCE dom_content_load_time CDATA #IMPLIED >
<!ATTLIST TXN_PAGE_PERFORMANCE dom_complete_msec   CDATA
#IMPLIED >
<!ATTLIST TXN_PAGE_PERFORMANCE dom_load_time       CDATA #IMPLIED >
<!ATTLIST TXN_PAGE_PERFORMANCE ms_first_paint_msec CDATA #IMPLIED >
<!ATTLIST TXN_PAGE_PERFORMANCE full_screen_msec    CDATA #IMPLIED >
<!ATTLIST TXN_PAGE_PERFORMANCE time_to_interactive_page    CDATA
#IMPLIED >

<!ELEMENT TXN_PAGE_OBJECT EMPTY >
<!ATTLIST TXN_PAGE_OBJECT element_count          CDATA #IMPLIED >
<!ATTLIST TXN_PAGE_OBJECT redir_delta            CDATA #IMPLIED >
<!ATTLIST TXN_PAGE_OBJECT redir_count            CDATA #IMPLIED >
<!ATTLIST TXN_PAGE_OBJECT page_bytes             CDATA #IMPLIED >

```

```

<!ELEMENT TXN_PAGE_STATUS EMPTY >
<!--ATTLIST TXN_PAGE_STATUS content_errors          CDATA #IMPLIED -->
<!--ATTLIST TXN_PAGE_STATUS error_code              CDATA #IMPLIED -->

<!--ELEMENT TXN_PAGE_DETAILS ( TXN_DETAIL_ERROR | TXN_REDIRECT |
TXN_BASE_PAGE | TXN_PAGE_ELEMENT ) * >
<!--ATTLIST TXN_PAGE_DETAILS page                    CDATA #IMPLIED -->

<!--ELEMENT TXN_DETAIL_ERROR EMPTY >
<!--ATTLIST TXN_DETAIL_ERROR record_seq              CDATA #IMPLIED -->
<!--ATTLIST TXN_DETAIL_ERROR url                     CDATA #IMPLIED -->
<!--ATTLIST TXN_DETAIL_ERROR title                   CDATA #IMPLIED -->
<!--ATTLIST TXN_DETAIL_ERROR html_element_text       CDATA #IMPLIED -->
<!--ATTLIST TXN_DETAIL_ERROR error_text              CDATA #IMPLIED -->

<!--ELEMENT TXN_REDIRECT
(TXN_DETAIL_PERFORMANCE, TXN_DETAIL_OBJECT, TXN_DETAIL_STATUS) >
<!--ATTLIST TXN_REDIRECT record_seq                  CDATA #REQUIRED -->
<!--ATTLIST TXN_REDIRECT record_subseq               CDATA #REQUIRED -->

<!--ELEMENT TXN_BASE_PAGE
(TXN_DETAIL_PERFORMANCE, TXN_DETAIL_OBJECT, TXN_DETAIL_STATUS) >
<!--ATTLIST TXN_BASE_PAGE record_seq                  CDATA #REQUIRED -->

<!--ELEMENT TXN_PAGE_ELEMENT
(TXN_DETAIL_PERFORMANCE, TXN_DETAIL_OBJECT, TXN_DETAIL_STATUS) >
<!--ATTLIST TXN_PAGE_ELEMENT record_seq              CDATA #REQUIRED -->

<!--ELEMENT TXN_DETAIL_PERFORMANCE EMPTY >
<!--ATTLIST TXN_DETAIL_PERFORMANCE start_msec        CDATA
#IMPLIED -->
<!--ATTLIST TXN_DETAIL_PERFORMANCE system_delta      CDATA #IMPLIED -->
<!--ATTLIST TXN_DETAIL_PERFORMANCE connect_delta     CDATA #IMPLIED -->
<!--ATTLIST TXN_DETAIL_PERFORMANCE dns_delta         CDATA
#IMPLIED -->
<!--ATTLIST TXN_DETAIL_PERFORMANCE element_delta     CDATA #IMPLIED -->
<!--ATTLIST TXN_DETAIL_PERFORMANCE first_packet_delta CDATA
#IMPLIED -->
<!--ATTLIST TXN_DETAIL_PERFORMANCE request_delta     CDATA #IMPLIED -->
<!--ATTLIST TXN_DETAIL_PERFORMANCE remain_packets_delta CDATA #IMPLIED -->
<!--ATTLIST TXN_DETAIL_PERFORMANCE ssl_handshake_delta CDATA
#IMPLIED -->
<!--ATTLIST TXN_DETAIL_PERFORMANCE detail_component_1_msec CDATA
#IMPLIED -->
<!--ATTLIST TXN_DETAIL_PERFORMANCE detail_component_2_msec CDATA
#IMPLIED -->
<!--ATTLIST TXN_DETAIL_PERFORMANCE detail_component_3_msec CDATA
#IMPLIED -->

<!--ELEMENT TXN_DETAIL_OBJECT EMPTY >
<!--ATTLIST TXN_DETAIL_OBJECT conn_string_text       CDATA #IMPLIED -->
<!--ATTLIST TXN_DETAIL_OBJECT content_type           CDATA #IMPLIED -->
<!--ATTLIST TXN_DETAIL_OBJECT content_bytes          CDATA #IMPLIED -->
<!--ATTLIST TXN_DETAIL_OBJECT header_bytes          CDATA #IMPLIED -->
<!--ATTLIST TXN_DETAIL_OBJECT header_code           CDATA #IMPLIED -->
<!--ATTLIST TXN_DETAIL_OBJECT request_bytes         CDATA #IMPLIED -->
<!--ATTLIST TXN_DETAIL_OBJECT ip_address            CDATA #IMPLIED -->
<!--ATTLIST TXN_DETAIL_OBJECT object_text           CDATA #IMPLIED -->

```

```
<!--ATTLIST TXN_DETAIL_OBJECT element_cached          CDATA #IMPLIED -->
<!--ATTLIST TXN_DETAIL_OBJECT msmt_conn_id           CDATA #IMPLIED -->
<!--ATTLIST TXN_DETAIL_OBJECT custom_object_trend     CDATA #IMPLIED -->

<!--ELEMENT TXN_DETAIL_STATUS EMPTY -->
<!--ATTLIST TXN_DETAIL_STATUS error_code             CDATA #IMPLIED -->
<!--ATTLIST TXN_DETAIL_STATUS status_code            CDATA #IMPLIED -->
```

## Mobile Web Perspective XML Element Descriptions

This table describes the meta-data and measurement data elements delivered by Data Feed XML Edition for Mobile Web Perspective.

|  |  |
|--|--|
| Element: <b>WXN_DATA_FEED</b><br>Consists of 0 or more WXN_META_DATA and 0 or more DP_WXN_MEASUREMENTS elements.   |  |
| <b>Meta-Data</b>   |  |
| ELEMENT: <b>WXN_META_DATA</b><br><br>Description of measurement provisioning. WXN_META_DATA encapsulates meta-data for Mobile Application Perspective services. Meta-data consists of four parts: AGENT_META_DATA, SLOT_META_DATA, PAGE_META_DATA, and PROFILE_META_DATA. This data represents a mapping of agent and slot ids to the detailed information about the agents and slots associated with the specified agreement. |  |
| ATTRIBUTES: none.  |  |
| ELEMENT: <b>AGENT_META_DATA</b><br><br>Description of agent.   |  |
| ATTRIBUTES   |  |
| <b>agent_id</b>  | The numeric designation of the Keynote agent location taking the measurement.  |
| <b>description</b>   | The name of the Keynote agent location taking the measurement.   |
| <b>weight</b>  | Deprecated.  |
| <b>ip</b>  | Internet protocol (v4) address of Keynote agent computer taking measurement, in dot notation.  |
| <b>backbone</b>  | The name of the ISP used by an agent computer to take measurements. This property will be only present if profile is blank meaning there is no profile |

|   |  |
|---|--|
|   | information for agent.   |
| <b>instance_id</b>  | The numeric designation of a specific agent instance within an agent location taking measurements. (Used internally by Keynote for load balancing purposes.) |
| <b>city</b>   | City in which agent computer is located.   |
| <b>country</b>  | Country in which agent computer is located.  |
| <b>region</b>   | Region in which agent computer is located.   |
| <b>ELEMENT: SLOT_META_DATA</b><br>Each instance represents a specific transaction measurement.                  |  |
| ATTRIBUTES  |  |
| <b>slot_id</b>  | Unique ID to designate a measurement.  |
| <b>slot_alias</b>   | Customer-supplied measurement name.  |
| <b>pages</b>  | Number of pages in measurement script.   |
| <b>device</b>   | Type of device being used to measure.  |
| <b>user_string</b>  | The User-String: request header.   |
| <b>ELEMENT: PAGE_META_DATA</b><br>Each instance represents a specific step in a transaction measurement script. |  |
| ATTRIBUTES  |  |
| <b>page_alias</b>   | Script step name.  |

|  |  |
|--|--|
| <b>page_seq</b>  | Script step ID.  |
| <b>ELEMENT: PROFILE_META_DATA</b><br>Contains dial-up and broadband profile attributes.  |  |
| ATTRIBUTES   |  |
| <b>access_sub_type</b>   | Connection sub type used by agent computer ; for example, 56K  |
| <b>access_type</b>   | Connection type used by agent computer; for example, Dialup  |
| <b>profile_name</b>  | Used internally by Keynote when setting up measurement agent computers on broadband or dialup connections. |
| <b>provider</b>  | Provider for connection; for example, Earthlink  |
| <b>profile_id</b>  | Unique id for the profile used. Please see description of profile above.                                   |
| <b>Measurement Data</b>  |  |
| <b>ELEMENT: DP_WXN_MEASUREMENTS</b><br><br>DP_WXN_MEASUREMENTS is an outer tag that encapsulates all measurements. Nested under this tag are zero or more TXN_MEASUREMENT elements, each instance representing a specific transaction measurement.                             |  |
| ATTRIBUTES: none.  |  |
| <b>ELEMENT: WXN_MEASUREMENT</b><br>Each instance represents a specific transaction datapoint.<br><br>Each WXN_MEASUREMENT element then supports a WXN_SUMMARY element, followed by an optional WXN_SCRIPT, one or more WXN_DETAIL_OBJECT elements, and then WXN_PAGE elements. |  |

|   |  |
|---|--|
| <b>slot</b>   | Keynote identification for the measurement.  |
| <b>agent</b>  | Keynote identification for the agent that took the measurement.  |
| <b>agent_inst</b>   | The numeric designation of a specific agent instance within an agent location taking measurements. (Used internally by Keynote for load balancing purposes.)                             |
| <b>datetime</b>   | Identifies when the measurement was taken; the time zone is GMT.   |
| <b>target</b>   | The unique id of script part of measurement. Used internally by Keynote to manage capacity. Target ID numbers are subject to change without notice.                                      |
| <b>profile_id</b>   | Unique id for the profile used.  |
| <b>ELEMENT: WXN_SUMMARY</b><br>Summary information for the measurement. |  |
| ATTRIBUTES  |  |
| <b>delta_msec</b>   | This is the total duration of the script in milliseconds from starting the connection to finishing hanging up the modem.   |
| <b>wap_connect_msec</b>   | This gives the connection duration in milliseconds (CD = IPCP – Dial_AT) for establishing the connection over Probe. Performance trending will exclude this value from delta_msec above. |
| <b>hangup_msec</b>  | This gives the hang up duration in milliseconds. The calculation is made from the hang up command sent to the end of the disconnection. . Performance                                    |



|   |  |
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|   | trending will exclude this value from delta_msec above.  |
| <b>signal_strength</b>  | This value gives the signal strength measured in the beginning of the script (just before the network connection) in RSSI (received signal strength indicator) |
| <b>task_succeed</b>   | 0=failed, 1=successful measurement.  |
| <b>ELEMENT: WXN_SCRIPT</b><br>Information relating to the script used in the measurement.   |  |
| ATTRIBUTES  |  |
| <b>content_error</b>  | Number of content errors during the measurement.   |
| <b>error_code</b>   | Error code during the measurement.   |
| <b>no_of_resources</b>  | Number of resources downloaded during the measurement.   |
| <b>device</b>   | For internal use.(Do not use)  |
| <b>user_string</b>  | User-String: header actually used for the measurement.   |
| <b>ELEMENT: WXN_DETAIL_OBJECT</b><br>Details on resources downloaded during the measurement. An optional PDU, followed by a CONTENT_TYPE, SCONTENT_TYPE, and a URL are expected here. |  |
| ATTRIBUTES  |  |
| <b>resource_id</b>  | ID for the resource.   |
| <b>ELEMENT: CONTENT_TYPE</b><br>Content type, e.g., "image."  |  |

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|---|---|
| ATTRIBUTES: none  |   |
| ELEMENT: <b>SCONTENT_TYPE</b><br>Content subtype e.g. "png."              |   |
| ATTRIBUTES: none  |   |
| ELEMENT: <b>URL</b><br>URL referencing the resource.                      |   |
| ATTRIBUTES: none  |   |
| ELEMENT: <b>WXN_PAGE</b><br>Describes a script step or page.              |   |
| ATTRIBUTES  |   |
| <b>page_seq</b>   | ID for the page. Page sequence numbers start from 1 and increment.  |
| ELEMENT: <b>WXN_PAGE_PERFORMANCE</b><br>Performance metrics for the page. |   |
| ATTRIBUTES  |   |
| <b>delta_msec</b>   | The time to complete the full page, measured from the time the navigation started until the time the last resource was fetched. Because browser uses multiple connections to fetch the resources, the sum of the times for download of all resources could be larger than the full-page download. This component does not include resources that are used by the page, but cached locally and thus not downloaded in the current session. |
| <b>start_msec</b>   | For internal Use, (Do not use)  |

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| <b>dns_lookup_msec</b>  | The time spent resolving the DNS name to an IP address.   |
| <b>system_delta</b>   | The total time spent fetching the page, excluding the time spent for interaction with the network.  |
| <b>connect_delta</b>  | The TCP connection time of the base page resource, if presented.  |
| <b>first_packet_delta</b>   | The time to first packet of the base page resource.   |
| <b>ssl_handshake_delta</b>  | The base page SSL time.   |
| <b>request_delta</b>  | The base page request time.   |
| <b>remain_packets_delta</b>   | Time to download the remaining packets after the first packet.  |
| <b>new_connection</b>   | This Boolean informs if the agent for the current action has launched a new connection or not (1 = created new connection, 0 = reused already-existing one) |
| <b>ELEMENT: WXN_PAGE_OBJECT</b><br>Contains measurement values related to the number of objects and/or redirects on a specific page of a measurement. |   |
| <b>ATTRIBUTES</b>   |   |
| <b>element_count</b>  | The number of elements in the page, including base page.  |
| <b>redir_delta</b>  | Not in use  |
| <b>redir_count</b>  | Not in use  |

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| <b>page_bytes</b>   | Byte size of the content.  |
| <b>ELEMENT: WXN_PAGE_DETAILS</b><br>More details on each page measured. Expected to contain 1 or more WXN_PAGE_ELEMENT elements.              |  |
| ATTRIBUTES  |  |
| <b>page</b>   | The page whose details are being reported.   |
| <b>ELEMENT: WXN_PAGE_ELEMENT</b><br>A page resource reference. Contains exactly one WXN_DETAIL_PERFORMANCE and one WXN_DETAIL_STATUS element. |  |
| ATTRIBUTES  |  |
| <b>resource_id</b>  | The resource identifier for this page references.  |
| <b>ELEMENT: WXN_DETAIL_PERFORMANCE</b><br>Performance details on a page resource reference.   |  |
| ATTRIBUTES  |  |
| <b>start_msec</b>   | The start time offset of a resource download from the beginning of download of the transaction page.   |
| <b>system_delta</b>   | The total time spent fetching the resource, excluding the time spent for interaction with the network. |
| <b>connect_delta</b>  | The connection time of the page resource, if presented.  |
| <b>dns_delta</b>  | The time spent resolving the DNS name to an IP address.  |

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| <b>element_delta</b>   | The time to complete the full resource download, measured from the time the navigation started until the time the resource was fetched. |
| <b>first_packet_delta</b>  | The time to first packet of the resource.   |
| <b>request_delta</b>   | The request time.   |
| <b>remain_packets_delta</b>  | Time to download the remaining packets after the first packet.  |
| <b>ssl_handshake_delta</b>   | The SSL time.   |
| <b>ELEMENT: WXN_DETAIL_STATUS</b><br>The status return of the measurement for a page resource reference. |   |
| ATTRIBUTES   |   |
| <b>error_code</b>  | The Keynote-internal error code or response status code.  |

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## Streaming XML Data Elements

This table describes the measurement data elements for Streaming Perspective measurements.

|  |  |
|--|--|
| <b>ELEMENT: STR_DATA_FEED</b><br>Consists of 0 or more Streaming Perspective measurement elements. |  |
| <b>ELEMENT: STR_META_DATA</b><br>Description of Streaming Perspective measurement                  |  |
| ATTRIBUTES   |  |
| <b>agreement_id=</b>   | The numeric designation of the Keynote customer agreement for this measurement.<br><br>Example: "123456" |

|                                 |  |
|---------------------------------|--|
| <b>ELEMENT: AGENT_META_DATA</b> |  |
| Description of agent            |  |
| ATTRIBUTES                      |  |
| <b>agent_id</b>                 | The numeric designation of the Keynote agent location taking the measurement.<br>Example: "45588"  |
| <b>instance_id</b>              | The numeric designation of a specific agent instance within an agent location taking measurements. (Used internally by Keynote for load balancing purposes.)<br>Example: "45589"                   |
| <b>country</b>                  | Country in which agent computer is located.<br>Example: "USA"  |
| <b>description</b>              | The Name of the Keynote agent location taking the measurement.<br>Example: "Streaming San Francisco Sprint"  |
| <b>region</b>                   | Geographic region where the agent is located.<br>Example: "West"   |
| <b>ip</b>                       | IP address of Keynote agent computer taking measurement.<br>Example: "205.163.212.42"  |
| <b>backbone</b>                 | The name of the ISP used by an agent computer to take measurements. This property will be only present if profile is blank meaning there is no profile information for agent.<br>Example: "Sprint" |
| <b>weight</b>                   | Deprecated (always 1).   |
| <b>city</b>                     | City in which agent computer is located.<br>Example: "San Francisco"   |

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| <b>ELEMENT: SLOT_META_DATA</b><br>Each instance represents a specific transaction measurement.              |  |
| ATTRIBUTES  |  |
| <b>slot_id</b>  | Unique ID to describe a measurement setup for user.<br><br>Example: "818829"                 |
| <b>slot_alias</b>   | Name of measurement.<br><br>Example: "GoldStream3"   |
| <b>pages</b>  | Number of pages in measurement script.<br><br>Example: "1"                                   |
| <b>subservice</b>   | The type of engine being used to measure.<br>STR means Streaming Perspective engine.         |
| <b>ELEMENT: PAGE_META_DATA</b><br>Each instance represents a specific transaction measurement script steps. |  |
| ATTRIBUTES  |  |
| <b>page_alias</b>   | Script step name.<br><br>Example: "Page1"  |
| <b>page_url</b>   | URL of the page being measured.<br><br>example: "rtsp://acmestream.net/live/reflector:43637" |
| <b>player_type</b>  | The media player type used for the measurement.<br><br>Example: "Real"                       |
| <b>page_alias</b>   | Descriptive name for the transaction page, by default "Page1".                               |
| <b>page_seq</b>   | Script step ID. Always "1".  |
| <b>ELEMENT: DP_STR_MEASUREMENTS</b><br>Consists of 0 or more STR_MEASUREMENT elements.                      |  |

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|--|--|
| <b>ELEMENT: STR_MEASUREMENT</b><br>Each instance represents a specific streaming data point. |  |
| ATTRIBUTES   |  |
| <b>agent</b>   | Keynote identification for which agent took the measurement.<br><br>example: "45588"   |
| <b>slot</b>  | Keynote identification for the measurement.<br><br>example: "818829"   |
| <b>datetime</b>  | Time when the measurement was taken, the time zone is GMT.<br><br>example: "2009-AUG-18 23:20:56"  |
| <b>target</b>  | The unique id of script part of measurement. Used internally by Keynote to manage capacity. Target ID numbers are subject to change without notice.<br><br>example: "996568"         |
| <b>agent_inst</b>  | The numeric designation of a specific agent instance within an agent location taking measurements. (Used internally by Keynote for load balancing purposes.)<br><br>example: "45589" |
| <b>profile</b>   | Currently always "0"   |
| <b>ELEMENT: STR_ERROR</b><br>Information about any reported errors.                          |  |
| ATTRIBUTES   |  |
| <b>code</b>  | The error code reported for the current measurement. "0" indicates no error.<br><br>example " "-1072885325"  |
| <b>page</b>  | The page where the error occurred. Currently always "1"  |



|   |  |
|---|--|
| <b>category</b>   | <p>The type of error. Separate STR_ERROR elements are provided for each error category. Four categories are reported:</p> <ul style="list-style-type: none"> <li>• check</li> <li>• player</li> <li>• traceroute</li> <li>• dns</li> </ul> |
| <p>ELEMENT: <b>STR_PAGE</b></p> <p>This element encompasses one measurement.</p>                    |  |
| ATTRIBUTES  |  |
| <b>page_seq</b>   | <p>Since all Streaming Perspective measurements are Always "1"</p>   |
| <p>ELEMENT: <b>STR_PAGE_PERFORMANCE</b></p> <p>Contains Streaming Perspective measurement data.</p> |  |
| ATTRIBUTES  |  |
| <b>protocol</b>   | <p>The protocol used to transport the media</p> <p>Example: "RTSP"</p>   |
| <b>connect_msec</b>   | <p>Connection time: How long the agent took to connect to the stream</p> <p>Example: "1000"</p>  |
| <b>avg_bit_rate</b>   | <p>Average bit rate of the media, as calculated by the agent.</p> <p>Example: "4.04305"</p>  |
| <b>rebuffer_events</b>  | <p>Number of times playback was interrupted to rebuffer.</p> <p>Example: "1"</p>   |
| <b>frust_delta_msec</b>   | <p>Frustration time is made up of Connect Time plus Buffer Time plus Rebuffer Time. In milliseconds.</p> <p>Example: "12430"</p>   |

|   |   |
|---|---|
| <b>packets_total</b>  | Total number of network packets the media player received, plus the number of packets lost.<br><br>Example: "494" |
| <b>wireless_sid</b>   | Not used -- but if the agent is wireless this will record the unique signal id.                                   |
| <b>rebuffer_msec</b>  | Number of seconds the media player stopped for rebuffering, if any.<br><br>Example: "4000"                        |
| <b>frame_rate</b>   | Frame rate of the video - 0 for audio.  |
| <b>resolve_msec</b>   | DNS lookup time.  |
| <b>packets_lost</b>   | Total number of network packets the media player lost.  |
| <b>wireless_ss</b>  | Not used, but if the agent is wireless this will record the signal strength.                                      |
| <b>buffer_msec</b>  | Initial buffer time.<br><br>Example: "3000"   |
| <b>stream_source_url</b>  | The URL of the measured stream.   |
| <b>server_type</b>  | The server hosting the media.   |
| <b>packets_received</b>   | Total number of packets received.<br><br>Example: "494"   |
| <b>playback_msec</b>  | How long the agent played the stream (milliseconds).<br><br>"51000"   |
| ELEMENT: <b>STR_PAGE_STATUS</b><br><br>Indicates success or failure of the measurement. |   |
| ATTRIBUTES  |   |

|   |   |
|---|---|
| <b>success</b>  | Successful completion of the measurement.<br>Example: "1" (success); "0" (failure)  |
| ELEMENT: <b>STR_PAGE_DETAILS</b><br>Contains network and events components for all streaming players. |   |
| ATTRIBUTES  |   |
| <b>event_delta</b>  | The length of the event in milliseconds.  |
| <b>record_seq</b>   | Element sequence ID.  |
| <b>connect_delta</b>  | TCP/IP connection delta for first connection.   |
| <b>dns_delta</b>  | DNS resolution delta for first Domain.  |
| <b>record_type</b>  | Recorder Type:<br>'N' – network<br>'R' – re-buffering event   |
| <b>start_msec</b>   | The offset of this element 'N' or 'R' from the start of the stream.   |
| <b>buffer_recv_count</b>  | Total count of received buffers.  |
| <b>buffer_sent_count</b>  | Total count of sent buffers.  |
| <b>sent_byte</b>  | Total number of bytes sent.   |
| <b>ip_address</b>   | The IP for the first connection.  |
| <b>received_byte</b>  | Total number of bytes received.   |
| <b>connection_count</b>   | The number of unique TCP connection established in the transaction. If the metric is not reported, the value is NULL. The value is the sum of all pages unique TCP connections. |