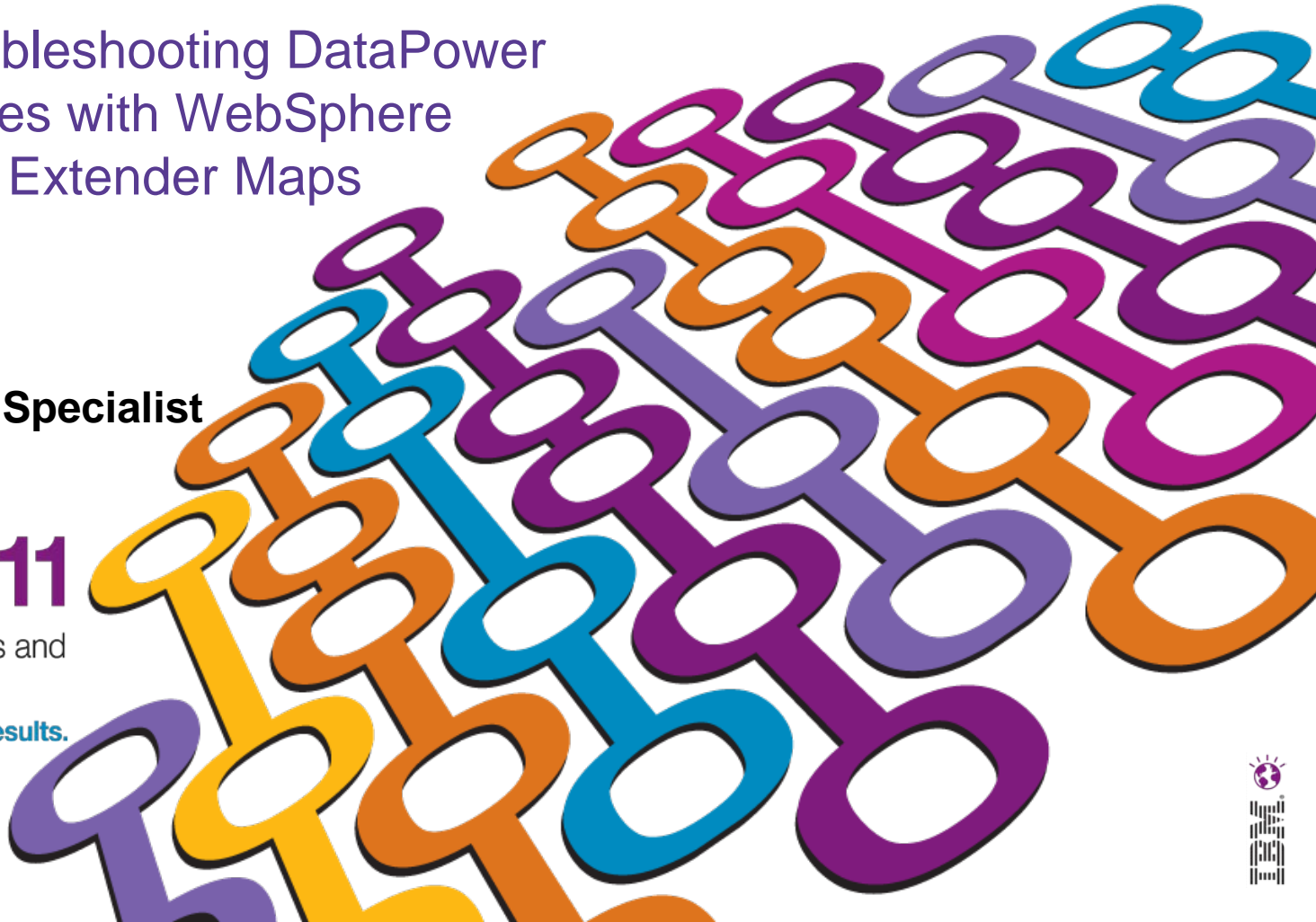# AVP-2934 Troubleshooting DataPower Integration issues with WebSphere Transformation Extender Maps

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Impact2011

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WTX and DataPower Integration Lab

- Agenda
  - Introduction
  - Lab Walkthrough
    - Starting the lab
    - Integrating WTX Design Studio and DataPower
      - Testing Maps on DataPower Directly from Design Studio
        - » http-based service
        - » https-based service
      - Uploading Maps to DataPower file system from Design Studio
    - Building DataPower Services
      - Configuring for MultiCard Map
      - Troubleshooting Common Issues

WTX and DataPower Integration Lab

- Introduction (Motivation and Background)

  - WTX Maps are commonly used for data transformations, particularly binary (non-XML)

  - DataPower services provide extensive functionality:

    - Security, threat protection

    - Application isolation and proxy

    - Processing speed

  - Integrating WTX maps into DataPower runtime provides powerful blend of strengths of each

  - There <u>are</u> a number of restrictions in the DataPower runtime engine (DataGlue) affecting WTX maps

    - This story is getting *better* by release (of both products)

    - See the product documentation (both WTX and DataPower) for detailed information

WTX and DataPower Integration Lab

- **Introduction (continued)**
  - Software Components - current versions
    - WTX v 8.3.0.3
    - DataPower v 3.8.2.2 (we're using v 3.8.2.1 in this lab)
  - <u>DataGlue Engine</u> is the required component needed to execute WTX maps on DataPower
    - Available on XI50, XB60, XM70
    - <u>Not</u> available on XS40, XA35
    - DataGlue engine can also execute Contivo Analyst maps
  - DPA mode on DataPower is the preferred compiled map format for WTX maps
    - First introduced in WTX v8.2.0.3 (with patch) and DataPower firmware v3.7.2

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WTX and DataPower Integration Lab

- Lab Walkthrough
  - Starting the lab
    - VMware image on each workstation should be running
    - **DO** pay attention your workstation ID (**01 – 20**)
      - Will prevent collisions with your fellow lab participants
    - **DON'T** hesitate to ask for help
  - Integrating WTX Design Studio and DataPower
    - Testing Maps on DataPower Directly from Design Studio
      - » http-based service
      - » https-based service
    - Uploading Maps to DataPower file system from Design Studio
  - Building DataPower Services
    - Configuring for MultiCard Map
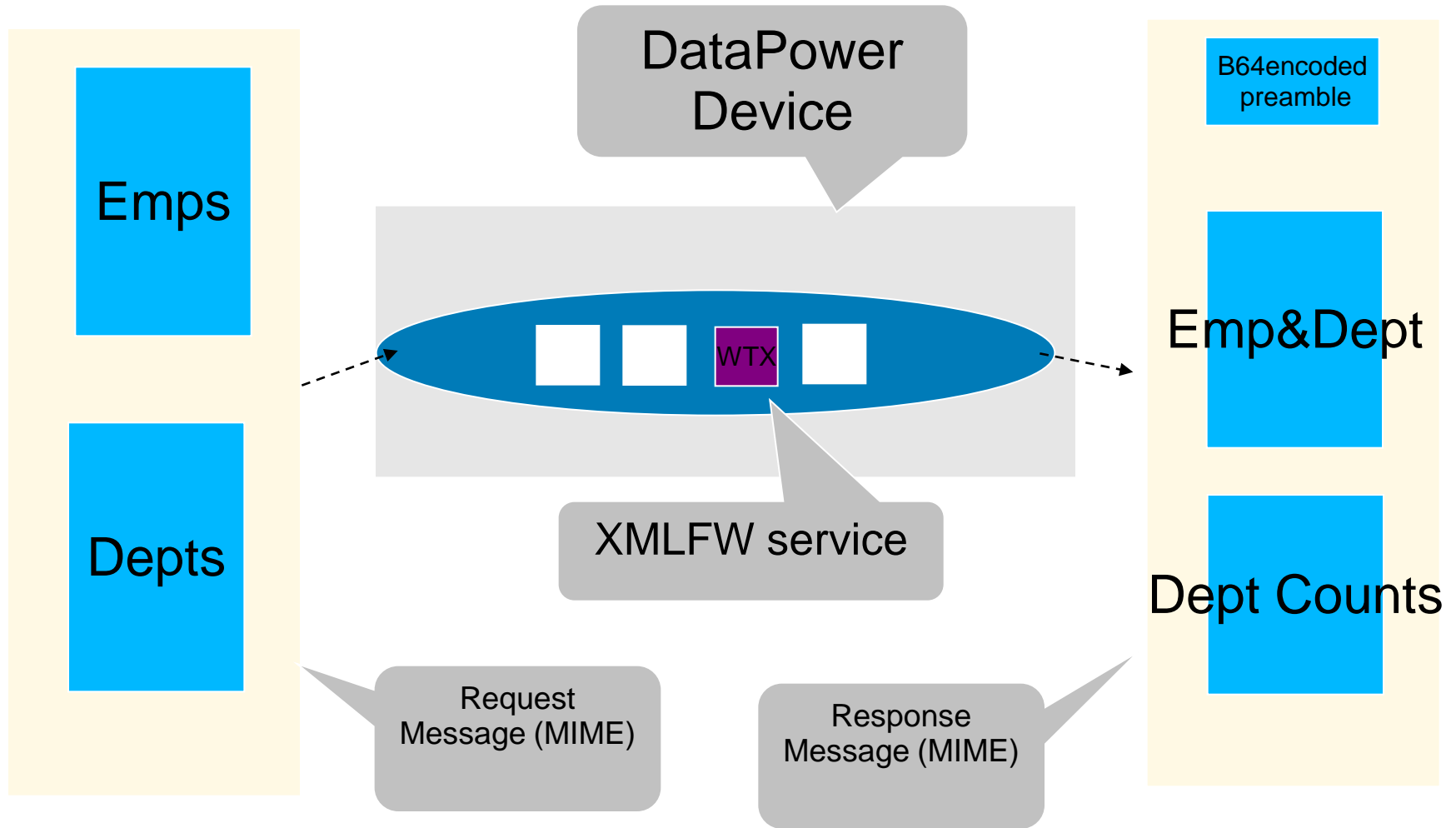   - Troubleshooting Common Issues

WTX and DataPower Integration Lab

- **Lab Walkthrough (continued)**
  - Integrating WTX Design Studio and DataPower
    - Parts 1 through 4 (NOTE – 'skip' sections p17 and p31)
      - Testing Maps on DataPower Directly from Design Studio
        - » Typically a developer role
      - DataPower setup typically a one-time admin activity
        - » http-based service
        - » https-based service
      - Uploading Maps to DataPower file system from Design Studio
        - » Usually a developer activity
  - Building DataPower Services
    - Parts 5 through 8
      - Building DataPower Services
        - » Configuring for MultiCard Map
        - » Troubleshooting Common Issues

WTX and DataPower Integration Lab

- The runtime exercise

DataPower Device

B64encoded preamble

Emps

Emp&Dept

WTX

Depts

XMLFW service

Dept Counts

Request Message (MIME)

Response Message (MIME)

cURL HTTP post

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- References
  - WebSphere Transformation Extender InfoCenter
    - http://publib.boulder.ibm.com/infocenter/wtxdoc/v8r3m0/topic/com.ibm.websphere.dtx.md.doc/concepts/c_md_datapwr_overview.htm
  - WebSphere DataPower InfoCenter
    - http://publib.boulder.ibm.com/infocenter/wsdatap/v3r8m2/nav/3_4_3

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- **Please** complete the survey for this session!
- The session is:
  - AVP-2934 Troubleshooting DataPower Integration issues with WebSphere Transformation Extender Maps

Thank you…