Who uses XML

- Companies with many facilities
- Facilities with many systems
- Facilities with many service records
Overview of XML Process

- Powerful and fast
- Must be carefully implemented
- Information available on R3
  - Test Your XML
  - Example XML
  - Latest XSD
  - Mapped Excel spreadsheets (to be added)
Use of the XML

• Facility registration
• Refrigeration system registration
• ALD system registration
• Service record uploads
What has been updated

- No change to process
- Existing Version 1 XML files continue to work
- Added Version 2
What has been updated

• Added fields
  • Facility profile
    • Operation date
  • Refrigeration system detail
    • ‘Has ALD’
- <FacilityListing>
- <FacilityProfile>
  <FacilityName>MY facility test19</FacilityName>
  <OperationDate>1967-08-13</OperationDate>
  <LocationAddress>
    <Line1>2000 dsfdfsdfs PO Box Number</Line1>
    <Line2>Street No 200</Line2>
    <City>Sacramento</City>
    <State>CA</State>
  </LocationAddress>
<RefrigerantSystemDetail>
  <SystemID>Refrigeration System #1</SystemID>
  <InstallationDate>1967-08-13</InstallationDate>
  <ModelYear>1952</ModelYear>
  <ModelDescription>ABC LLC</ModelDescription>
  <ManufacturerName>Flakice</ManufacturerName>
  <EquipmentType>Refrigeration</EquipmentType>
  <SerialNumber>A-110011</SerialNumber>
  <Location>Outer Shell</Location>
  <TemperatureClass>Medium</TemperatureClass>
  <OperationalStatus>Shutdown</OperationalStatus>
  <FullChargeAmount>1000.0</FullChargeAmount>
  <RefrigerantType>R-11</RefrigerantType>
  <ChargeAmountDeterminedBy>Manual</ChargeAmountDeterminedBy>
  <HasALD>Yes</HasALD>
</RefrigerantSystemDetail>
What has been updated

• Added fields (continued)
  • Refrigeration system service records
    • Amount of new refrigerant added
    • Amount of refrigerant removed and not returned
    • (Removed net refrigerant amount field)
  • ALD service records
    • Added entire section
<ServiceRecordList>
  <ServiceRecordDetail>
    <ServiceDate>2010-08-13</ServiceDate>
    <ServiceRecord>Seasonal Adjustment</ServiceRecord>
    <LeakDetected>Yes</LeakDetected>
    <ServiceRefrigerant>Added</ServiceRefrigerant>
    <RefrigerantAmountAdded>20.0</RefrigerantAmountAdded>
    <RefrigerantAmountRemoved>10.0</RefrigerantAmountRemoved>
    <LeakDetectionMethod>Bubble Test</LeakDetectionMethod>
    <ChargePurpose>Leak Repair</ChargePurpose>
    <RetrofitTime>0</RetrofitTime>
    <DateLeakDetected>2010-08-10</DateLeakDetected>
    <DateLeakRepaired>2010-08-13</DateLeakRepaired>
    <InitialVerificationTestDate>2010-08-17</InitialVerificationTestDate>
    <FollowUpVerificationTestDate>2010-08-19</FollowUpVerificationTestDate>
    <CauseOfLeakDescription>Refrigerant added as Seasonal Adjustment</CauseOfLeakDescription>
    <TechnicianName>Mr Peter Bense</TechnicianName>
    <TechnicianCertificateNumber>AC324234</TechnicianCertificateNumber>
    <TechnicianCertificateType>Text</TechnicianCertificateType>
    <AdditionalComments>comments</AdditionalComments>
  </ServiceRecordDetail>
</ServiceRecordList>
<RefrigerantSystems>
</ALDDetail>
- <ALDServiceRecordList>
  - <ALDServiceRecordDetail>
    <ALDServiceDate>2010-08-19</ALDServiceDate>
    <ALDServiceType>Audit</ALDServiceType>
    <DetectionLimit>11</DetectionLimit>
    <AlarmSetPoint>11</AlarmSetPoint>
    <ServiceDescription>testppp</ServiceDescription>
  </ALDServiceRecordDetail>
  - <ALDServiceRecordDetail>
    <ALDServiceDate>2010-08-19</ALDServiceDate>
    <ALDServiceType>Audit</ALDServiceType>
    <DetectionLimit>13</DetectionLimit>
    <AlarmSetPoint>13</AlarmSetPoint>
    <ServiceDescription>testqqq</ServiceDescription>
  </ALDServiceRecordDetail>
</ALDServiceRecordList>
</ALD>
Uploading the XML File

• Validate File
  • R3 login page Red Bar link
    • ‘Test Your XML’

• Upload
  • After login – Registration or Annual Reporting Red Bar link
    • Batch Upload V1 or V2
    • Must be Company Admin type user
Uploading the XML File

- Browse to file on your computer
- Upload
Creating an XML File

- Third Party Refrigerant Management Software Vendor
- User designed database program
- Edit and Update the example XML
- Excel to XML
Format of the XML File

• Facility 1
  • Facility name, address, contact, etc.
  • Refrigeration system
    • Refrigeration system service records
  • Refrigeration system
    • Refrigeration system service records
  • ALD system
    • ALD system service records
  • ALD system
    • ALD system service records

• Facility 2
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Edit Example XML File

- Download from R3
- Replace example facility information
- Replace example refrigeration system information
- Additional refrigeration systems
  - Copy first system and paste below first
  - Replace system information with next system information
Edit Example XML File

- Replace example ALD system information
- Additional ALD system
  - Copy first ALD system and paste below first
  - Replace ALD system information with next system information
- Copy first facility and repeat for next facility
- Save ‘Registration XML’ file
Excel to XML File

• Download mapped Excel files

• Facility profile
  • ‘R3 Facility xml mapped.xlsx’
  • Enter name, address, contact, etc. for each facility within the company

• Export as xml
Excel to XML File

- Refrigeration system information
  - ‘R3 System xml mapped.xlsx’
- Enter information for all systems at each facility
  - Separate file for each facility
  - All systems at all facilities in one file
- Export as xml
Excel to XML File

• ALD system information
  • ‘R3 ALD xml mapped.xlsx’
• Enter information for all ALD systems at each facility
  • Separate file for each facility
  • All ALD systems at all facilities in one file
• Export as xml
Excel to XML File

• Create ‘Registration XML’ file
  • Open facility xml file
  • Open system and ALD xml file(s)
  • Copy and insert refrigeration system information into facility xml file
  • Copy and insert ALD information into facility xml file
• Save as ‘Registration XML’ file
Excel to XML File

• Refrigeration system service records
  • ‘R3 Service xml mapped.xlsx’
  • Enter refrigeration system service records
    • Separate file for each refrigeration system
    • All service records for all systems in one file

• Export as xml
Excel to XML File

• ALD system service records
  • ‘R3 ALD xml mapped.xlsx’
• Enter ALD system service records
  • Separate file for each ALD system
  • All service records for all ALD systems in one file
• Export as xml
Excel to XML File

• Create ‘upload’ xml file
  • Open new copy of ‘Registration XML’ file
  • Open refrigeration system service record and ALD service record xml files
  • Copy and insert refrigeration system service records into xml file
  • Copy and insert ALD service records into xml file

• Save ‘upload’ xml file, upload to R3
Uploading the XML File

• Validate File
  • R3 login page Red Bar link
    • ‘Test Your XML’

• Upload
  • After login – Registration or Annual Reporting Red Bar link
    • Batch Upload V1 or V2
    • Must be Company Admin type user
Uploading the XML File

• Browse to file on your computer

• Upload
QUESTIONS?
Resources

• Website
  • R3 tool website:  
    www.arb.ca.gov/rmp-r3
  • RMP Program website:  
    www.arb.ca.gov/stoprefrigerant_leaks
    www.arb.ca.gov/cc/reftrack/reftrack.htm

• Hotline
  (916) 324-2517

• Email
  reftrackinfo@arb.ca.gov

• Listserve
  Sign up on website
ARB Contacts

• Ken Bowers
  916.323.1510
  kbowers@arb.ca.gov

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