

Applying the Software as a Service (SaaS) Model to Air Emissions Inventory Collection

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Overview

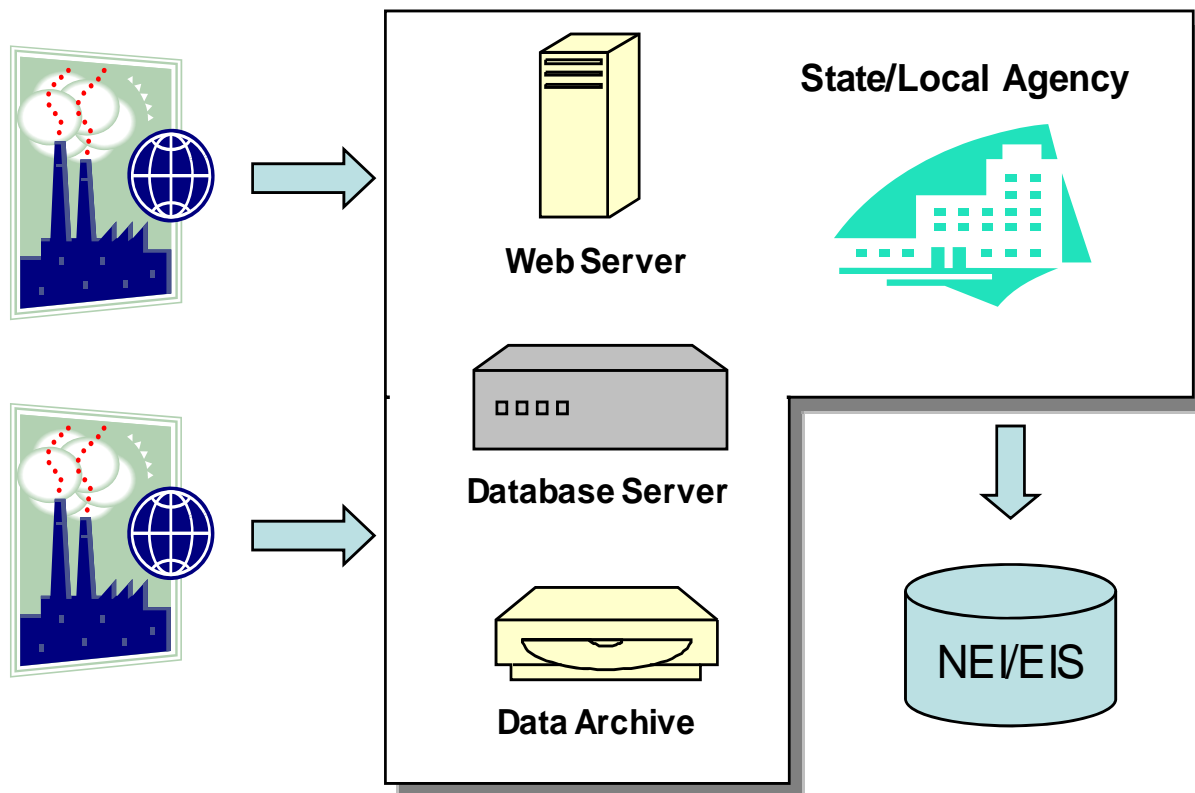
- **Emission Inventory Data Collection**
- **What SaaS is**
- **Why the EIS is good for SaaS**
- **How SaaS works**
- **SaaS Benefits for Agencies**
- **What to look for when considering SaaS**
- **Who should consider SaaS**
- **Conclusion**

Emission Inventory Data Collection

- **Recurring process**
- **Shortened timeline**
- **Significant cost to streamline**
- **New approach - SaaS**

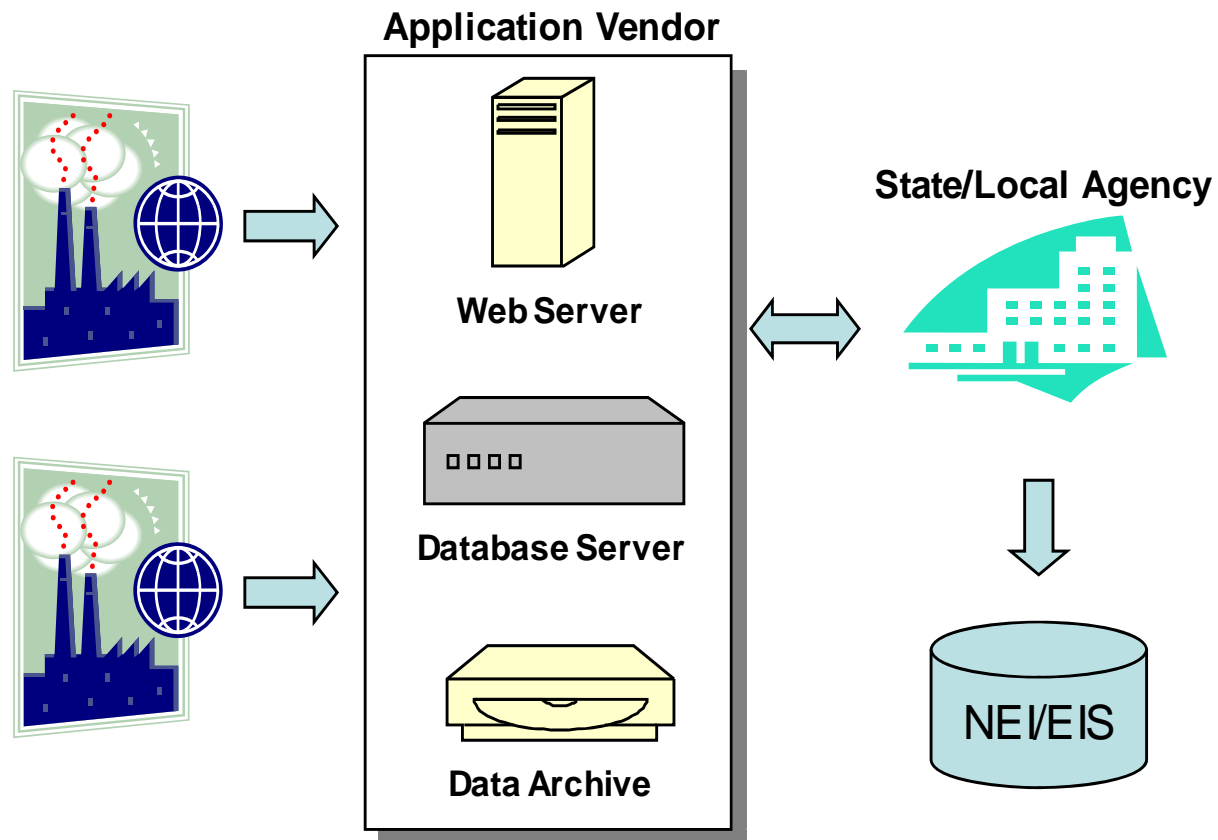
What is Software as a Service (SaaS)

Typical Web Application Architecture (hosted at agency)

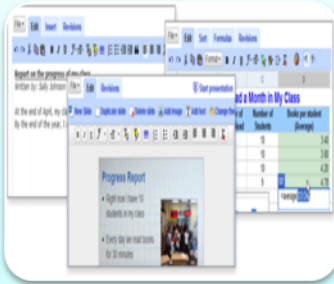


What is Software as a Service (SaaS)

SaaS Application Architecture (hosted by the vendor)



SaaS Examples



Google Spreadsheet



TurboTax Online



EIS Gateway

The SaaS Model

- **Shifts application burden**
- **Eliminates added costs and complexities**
- **Benefit of new technology**
- **Improves agency efficiency**

Why SaaS is good for EIS

- **Vendor handles data changes**
- **Common task oriented**
- **Single code base**
- **Vendor development cycle stability**

How SaaS Works

- **Establish host environment**
- **Grant access**

SaaS Benefits for Agencies

- **Faster implementation**
- **Removed environment responsibilities**
- **One code base**
- **Removed from security and archive responsibilities**
- **EIS and CERS compatibility**

What to look for when considering SaaS

- **Stability**
- **Subject matter knowledge**
- **Application suitability**
- **Data security / availability**
- **System security**
- **Integration**

What to look for when considering SaaS - continued

- **Specific needs**
- **Existing data**
- **Cost**
- **Support**

Who should consider SaaS

- **Non-compliant legacy systems**
- **IT infrastructure**
- **Budget**

Conclusions

- **Widespread acceptance**
- **Cost effect**
- **Shorten collection schedules**