EPA Office of Compliance
Enforcement Targeting and Data Division

AFS National Workshop

Washington, DC

July 24-28, 2006

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Media Systems and Support Section, Data Systems and Information Management Branch, Enforcement Targeting and Data Division, Office of Compliance, Office of Enforcement and Compliance Assurance, U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, D.C. 20460

The

Universal Interface Version 3 Upgrades & The Future (4.0)

AFS Workshop, Washington DC – 2006

Introduction

What is the Universal Interface?

UI States

BACKGROUND

Previous Version 2 processed:

- Plant General
- Air Program
- Pollutant Air Program
- Actions as submitted or
- Action Linking within the UI

NEW FUNCTIONALITY INTRODUCED IN 3.0

Permit Data Stream

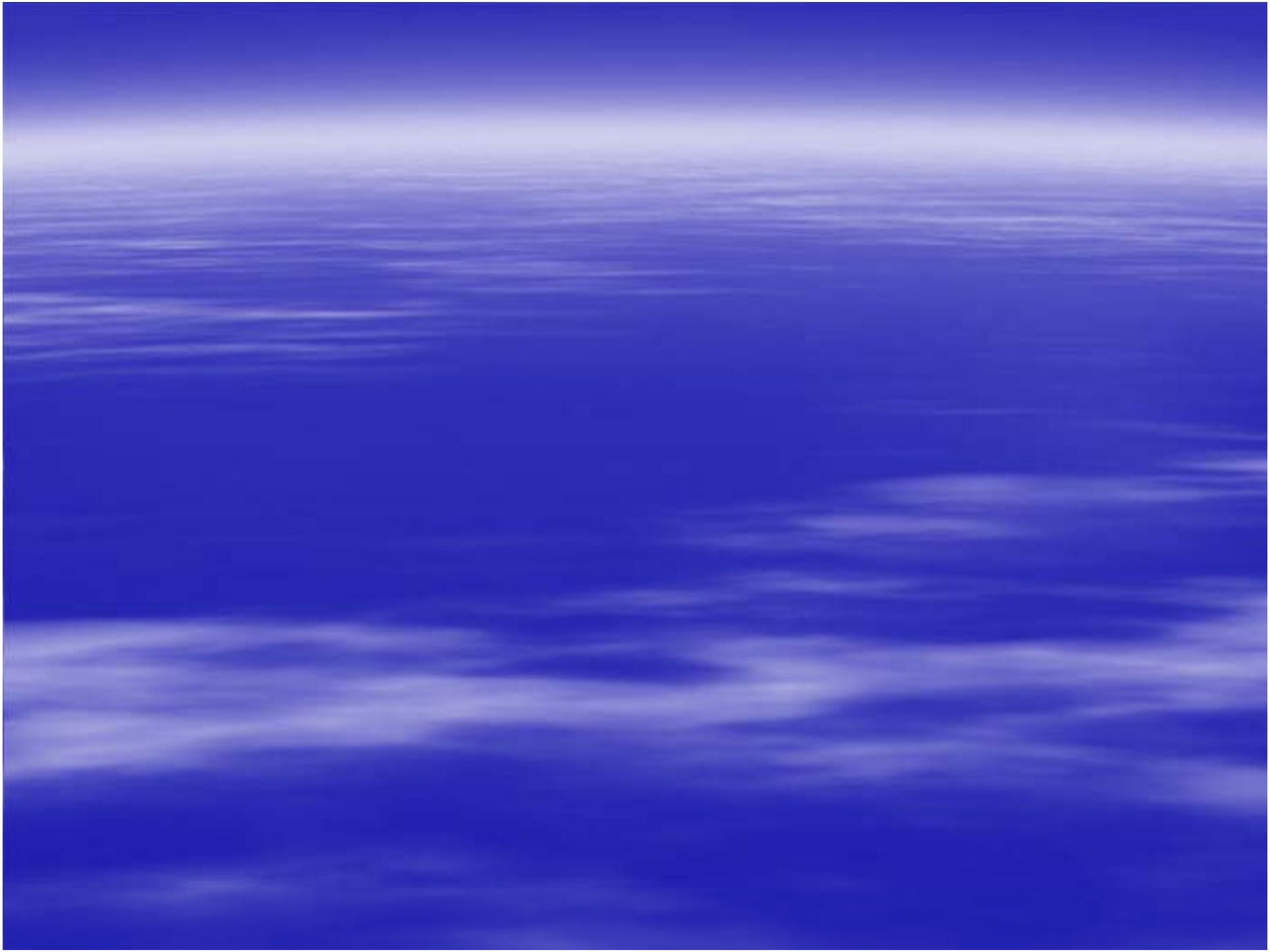
CEM Data Stream

Action Export Report

Built-in plant and permit ID monitoring

Stack Test Results Code Update Handling

Significant Manual Updates



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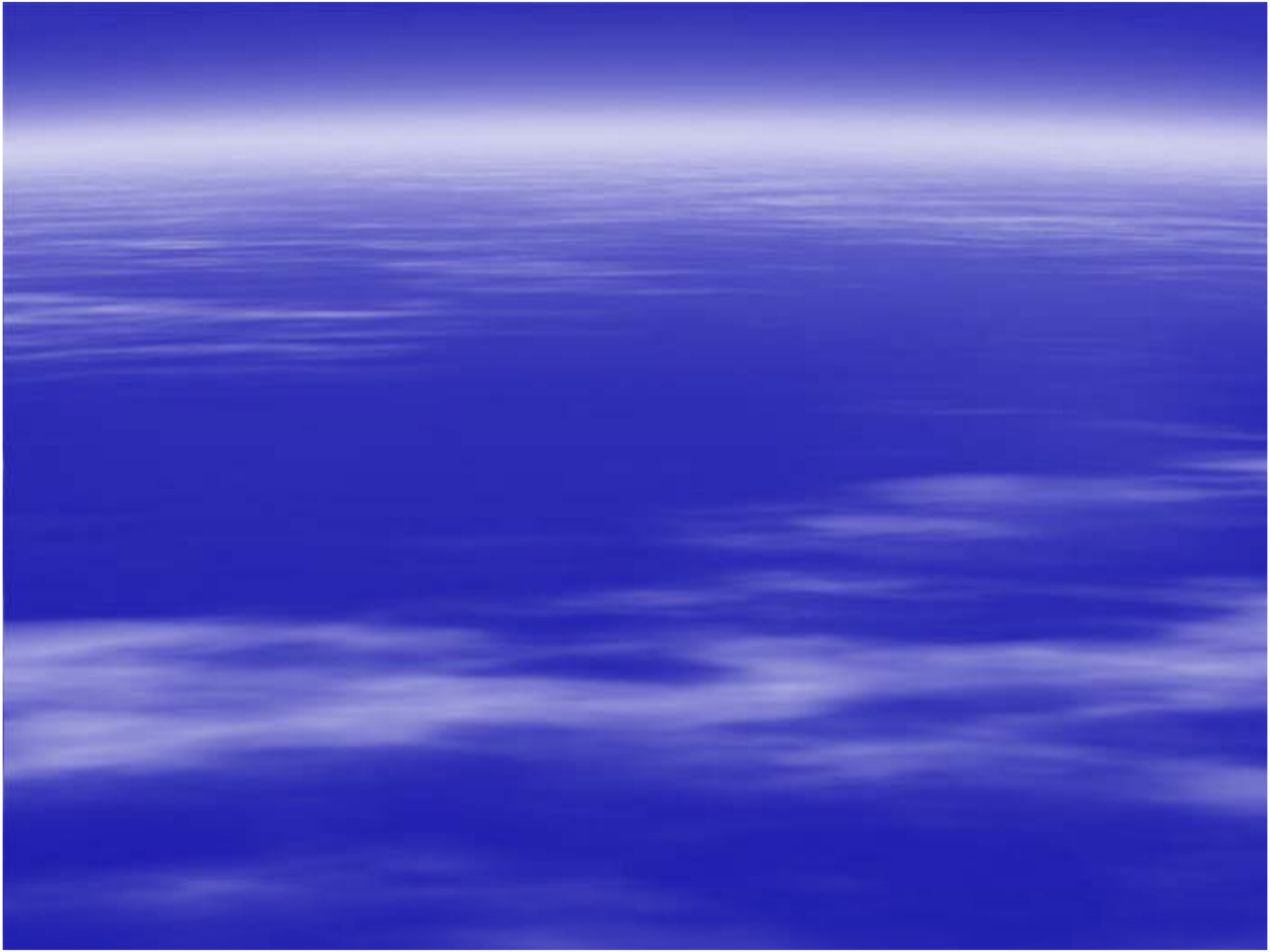
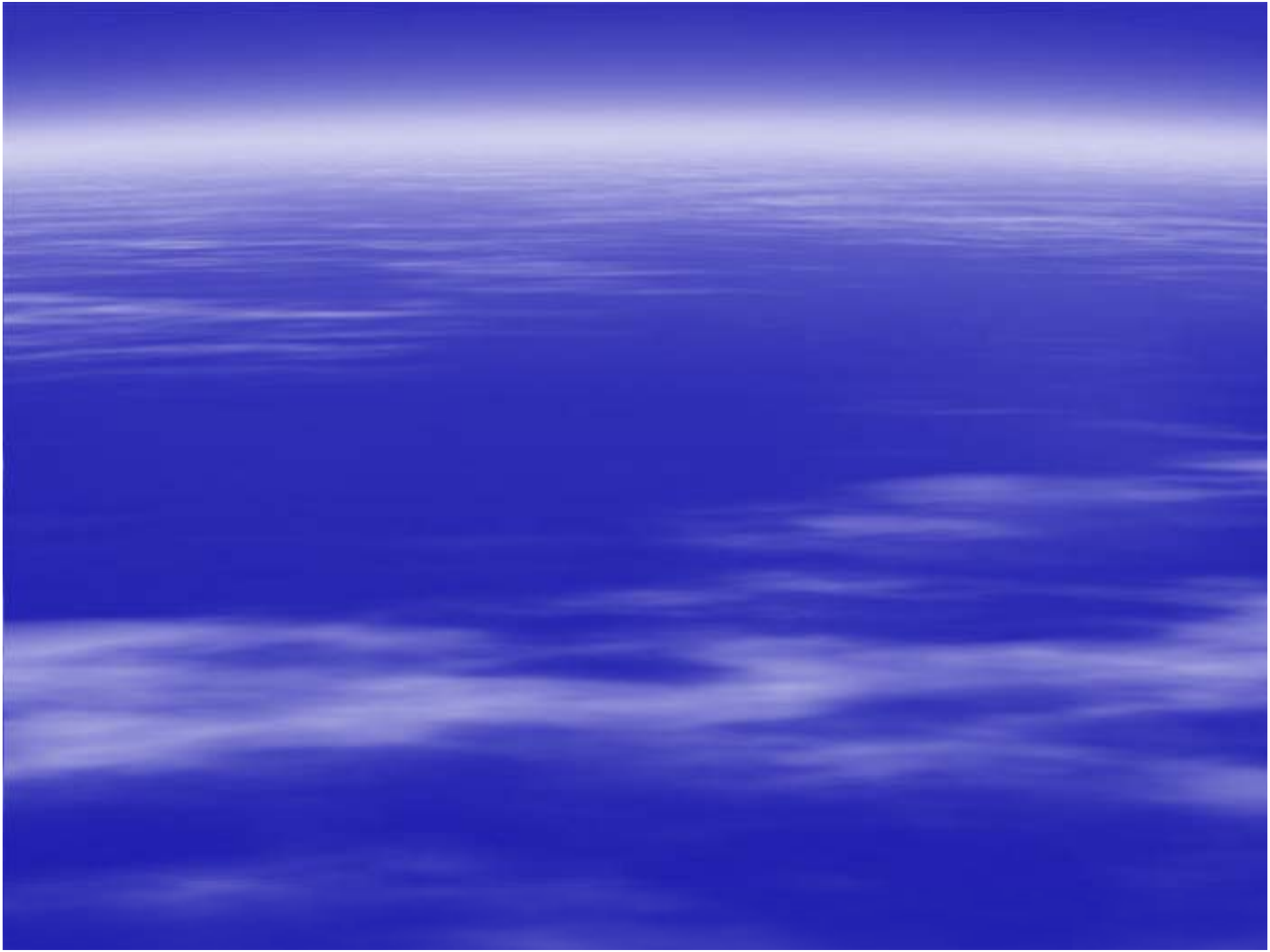


NEW STACK TEST MODULE INTRODUCED IN 3.0

A “HOME” FOR STACK TEST DATA

MANAGE AND MONITOR STACK TEST DATA

ADDITIONAL ABILITIES FOR IN-HOUSE USE



ALL THAT AND MORE!

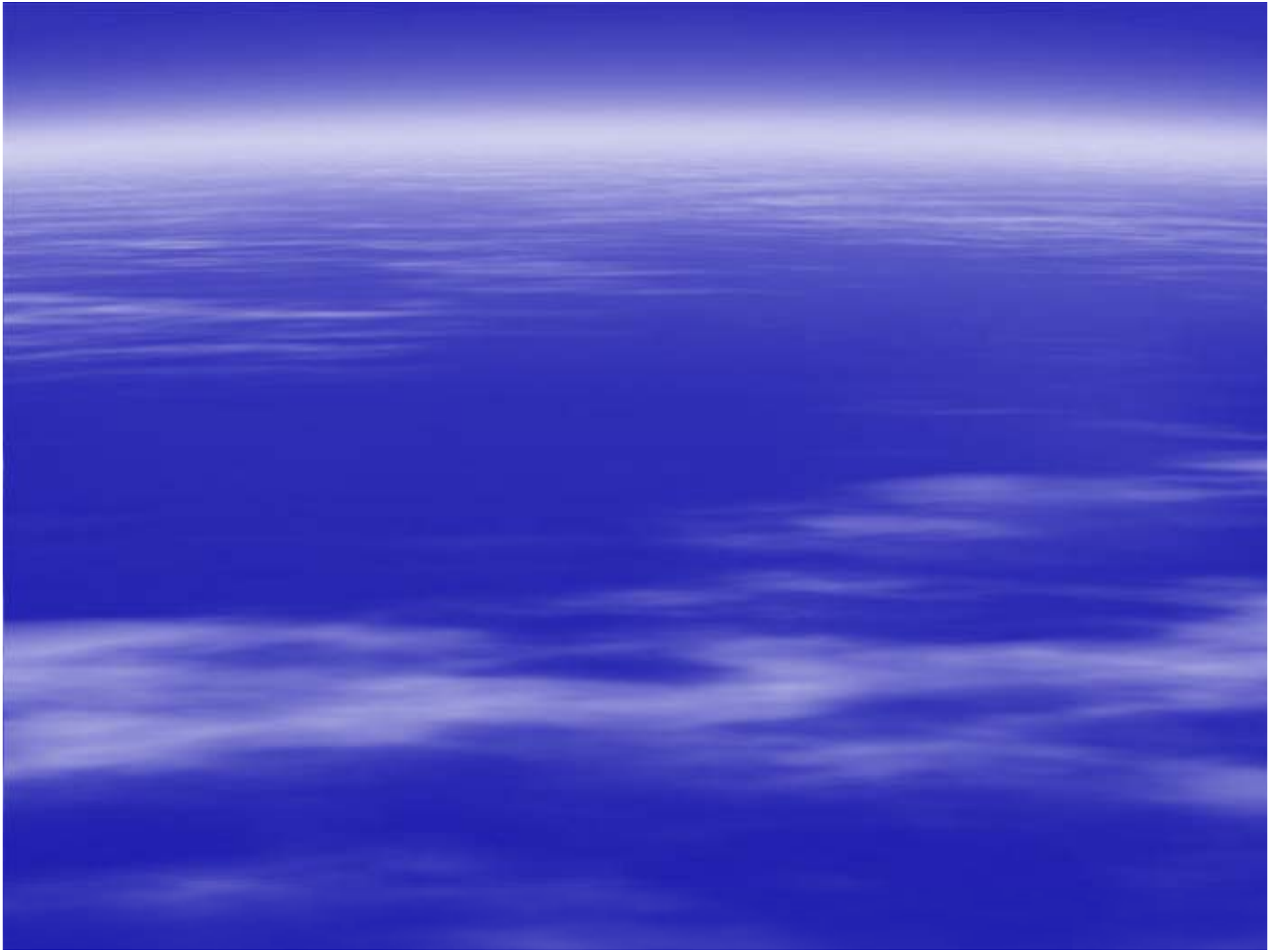
Version (3.1) Added:

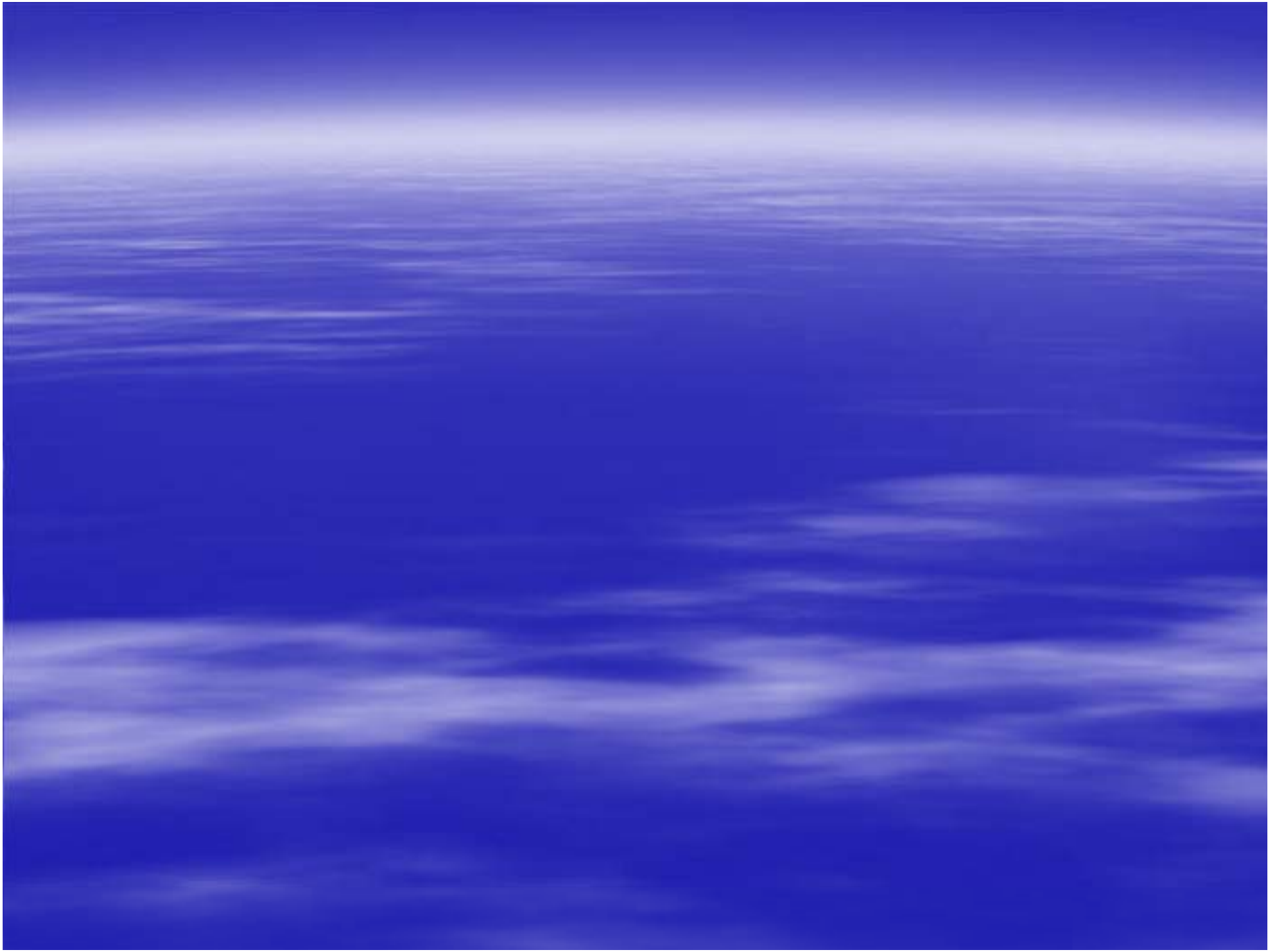
- Multiple Action Linking within the UI
- Historic Action Linking
- Linked Action Report
- CEM Data Entry Screens
  (A Permanent CEM Repository)

Multiple Action Linking

Multiple day zeros can be closed with a single addressing action.

Actions linked to Day Zeros show the actions they are linked to during the process to provide visual aid.





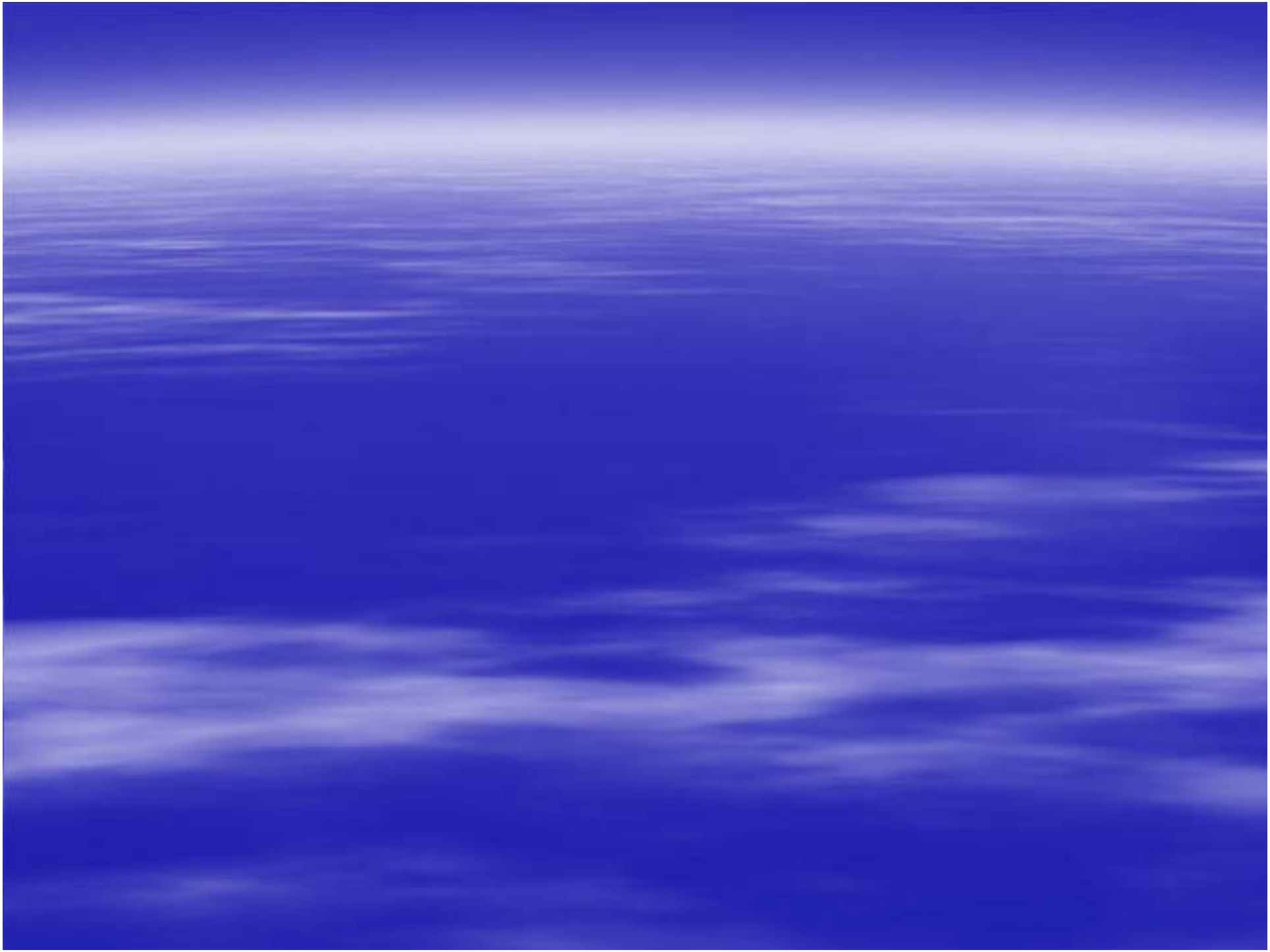
CEM Data Entry

An agency's CEM database

Data entry screens for CEM point, monitor and EER data

The data can then be exported for submittal to AFS

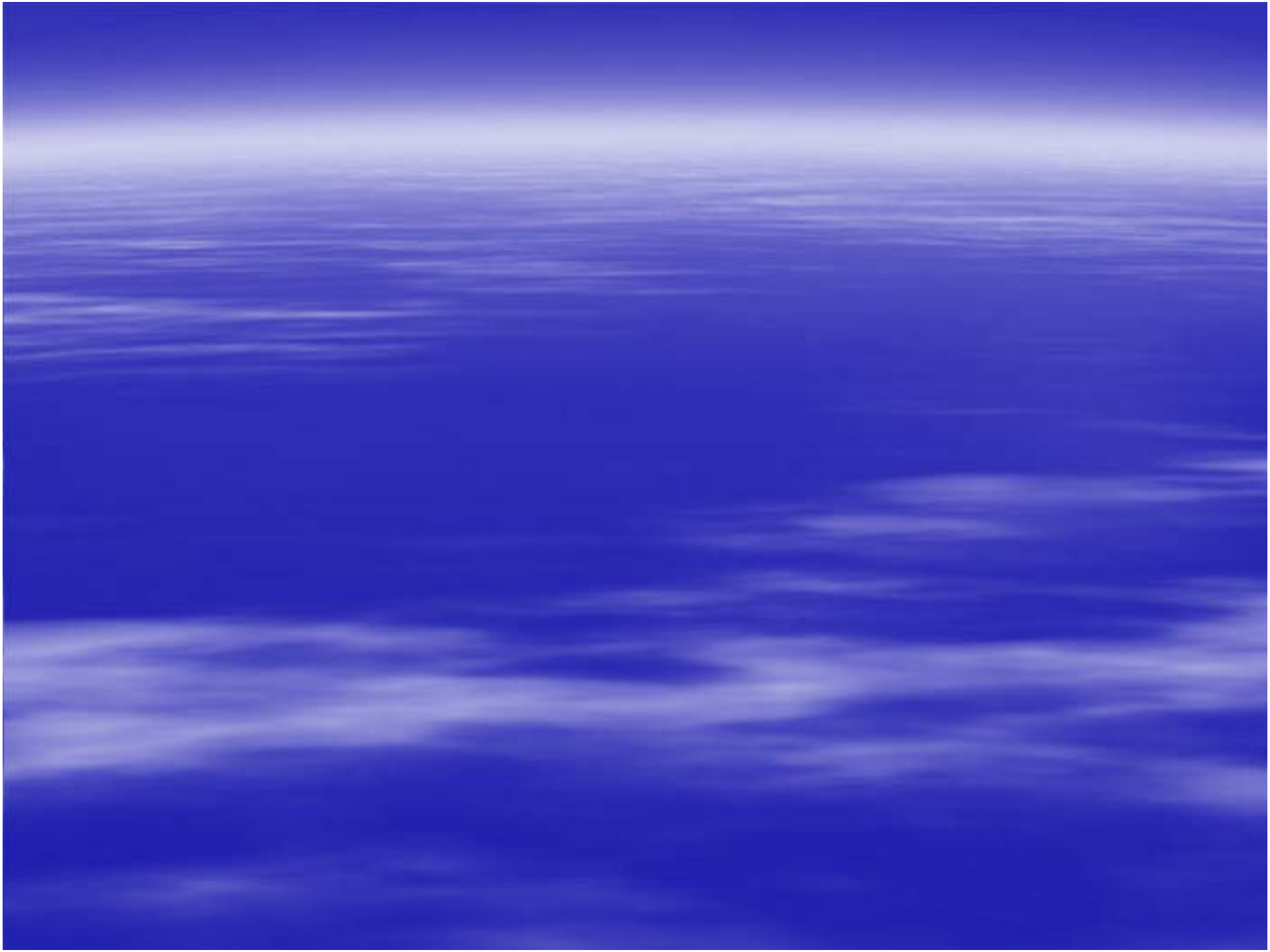
A modernized vessel for data originally stored in PCCEMS



ALL THAT AND STILL MORE!

Version (3.2) Added:

- CMS Category, Frequency, Years, On-site Indicators & Comment
- LCON Table Validation

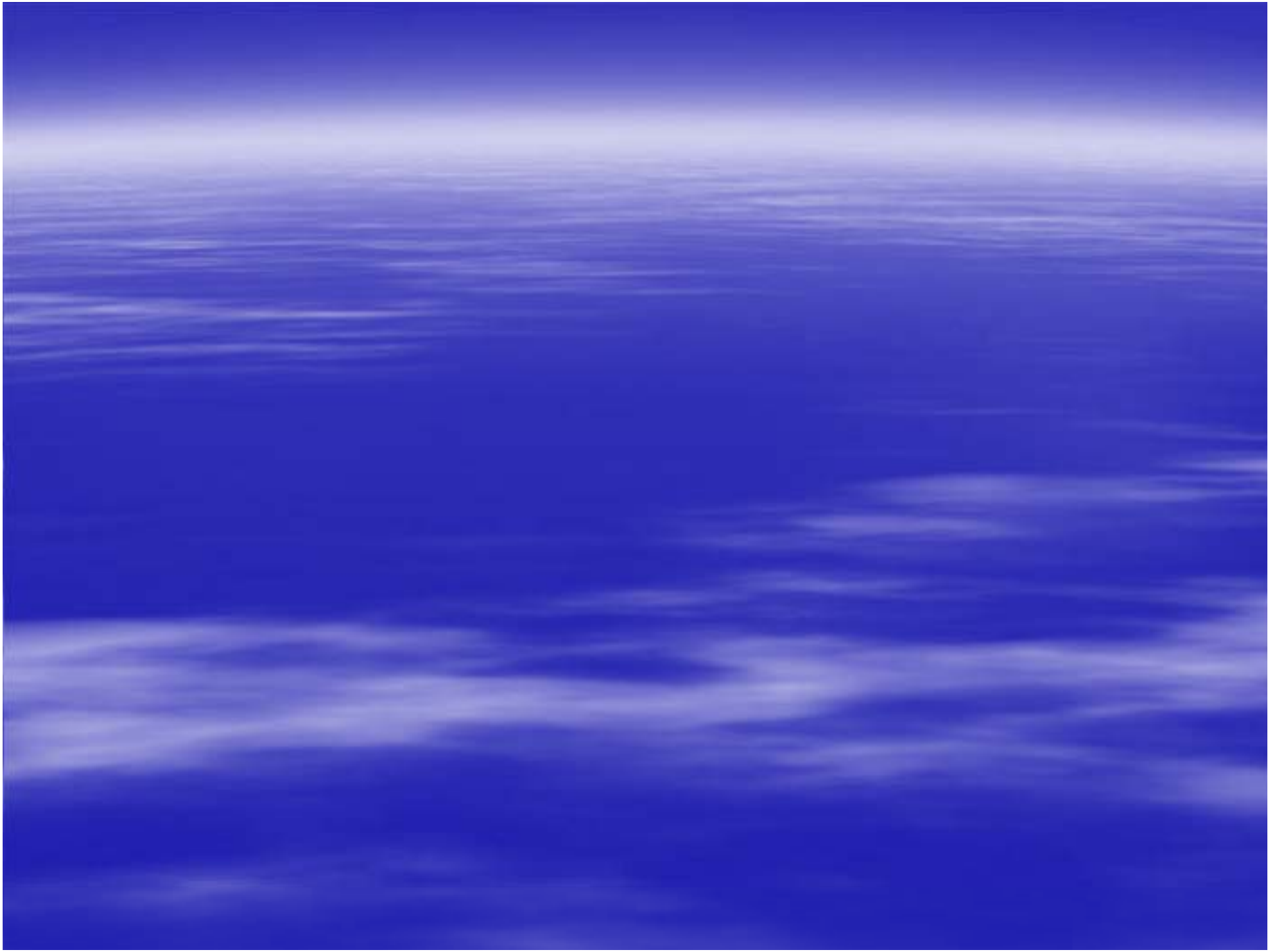


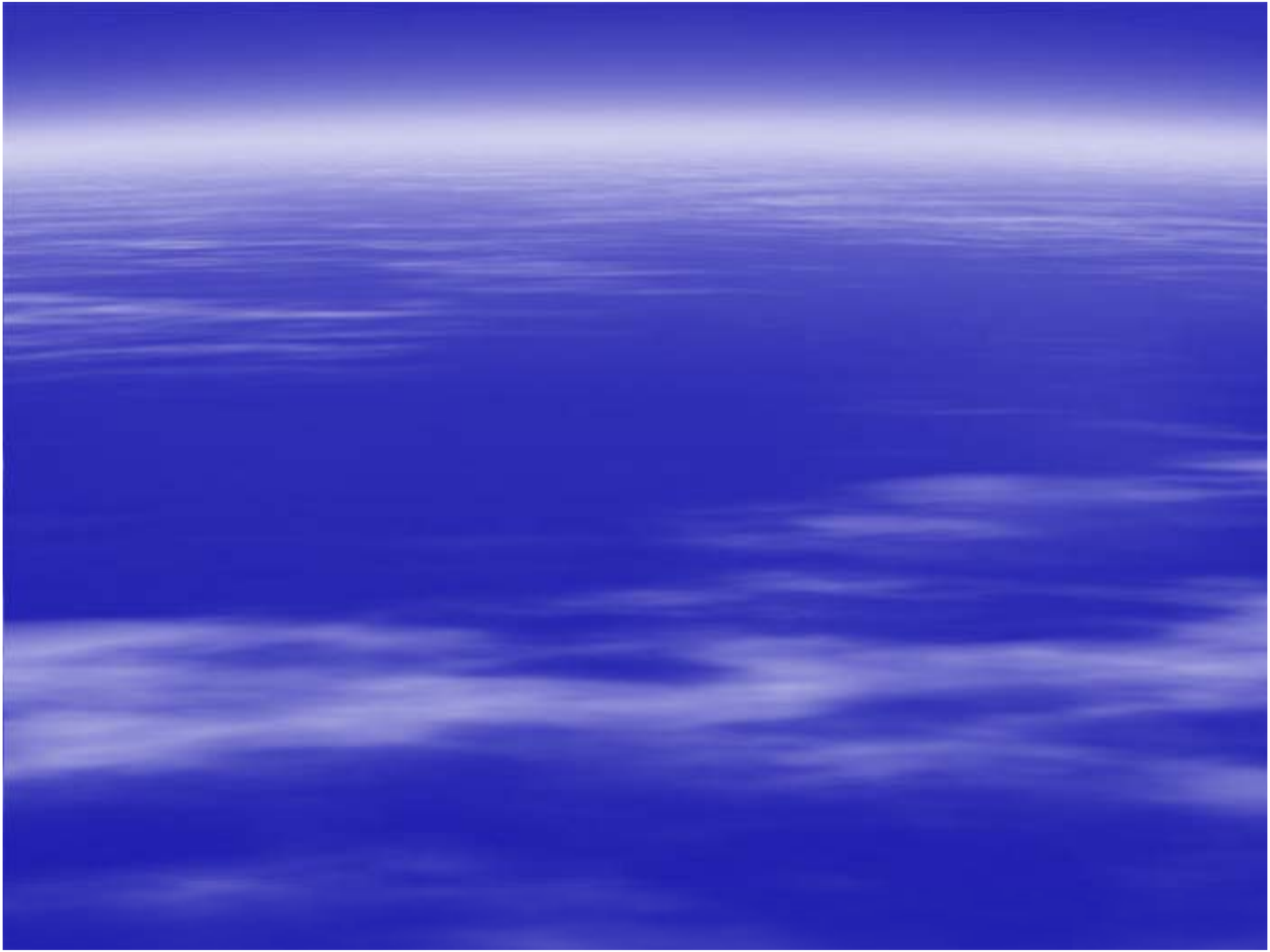
A “tongue-in-cheek” Schema Defining Workshop Presenters

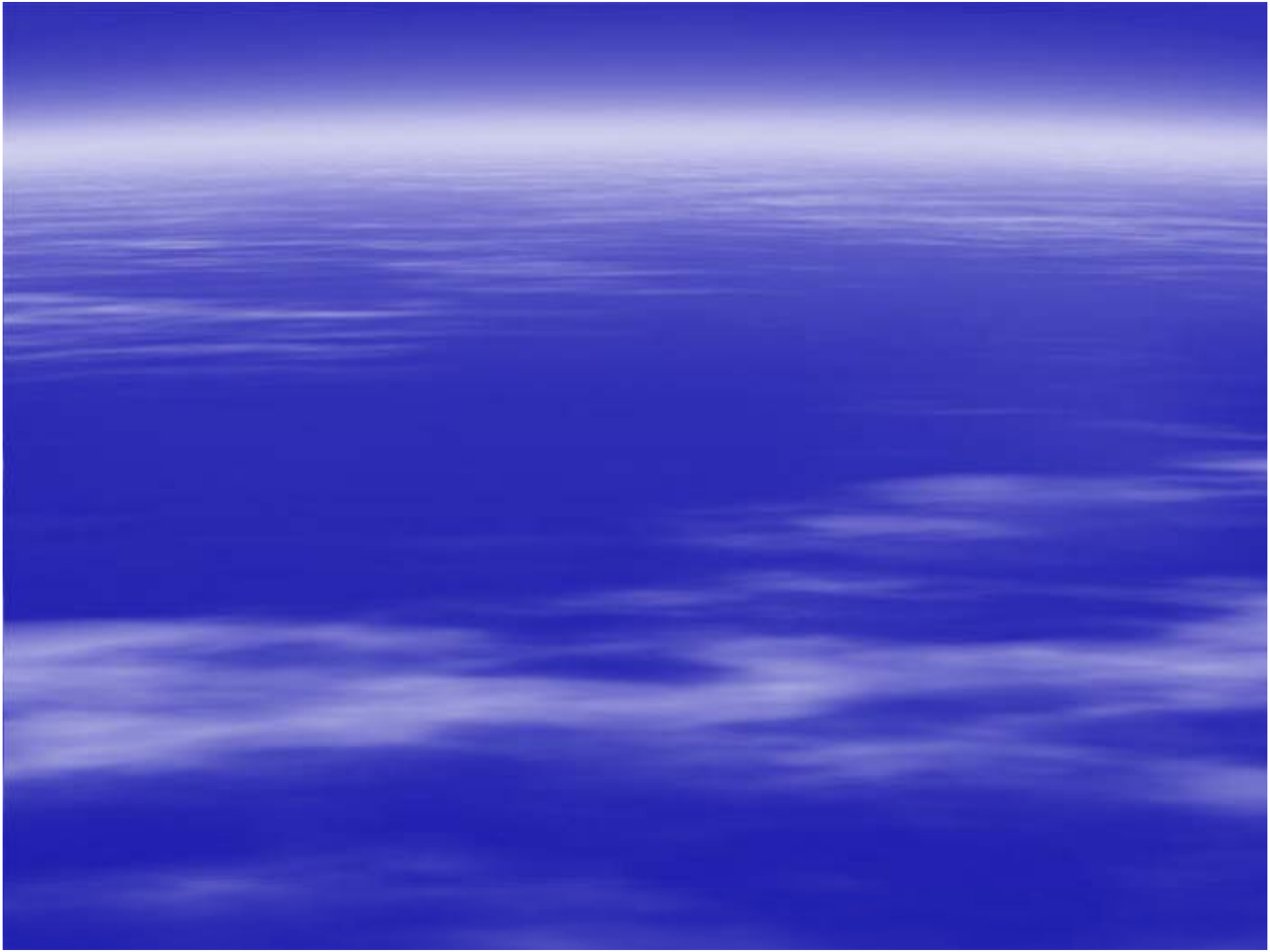
```
<xsd:complexType name=”AFSRepresentative">
        <xsd:restriction base="xsd:human">
                <xsd:minLength value="5 feet"/>
                <xsd:maxLength value="6 feet"/>
                <xsd:sex value="female"/>
                <xsd:hair value="Blonde"/>
        </xsd:restriction>
</xsd:complexType>

<xsd:complexType name="OTISandECHO">
        <xsd:restriction base="xsd:human">
                <xsd:minLength value=”6 feet"/>
                <xsd:maxLength value=”7 feet"/>
                <xsd:sex value="male"/>
                <xsd:hair value=”Optional"/>
        </xsd:restriction>
</xsd:complexType>
```

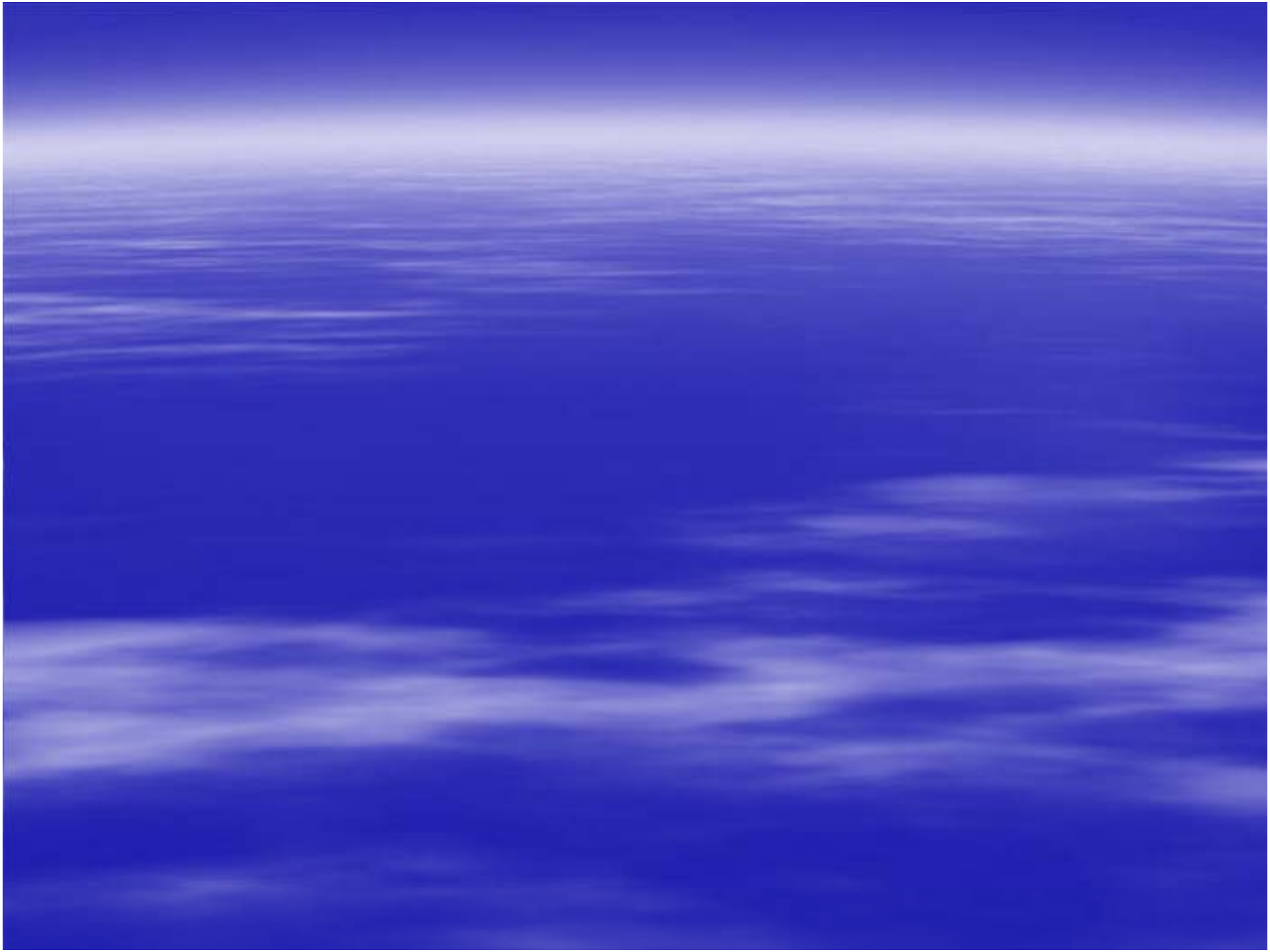
A “tongue-in-cheek” Schema Defining Workshop Presenters

```
<xsd:complexType name=" NortheastStates">
        <xsd:restriction base="xsd:human">
                <xsd:minLength value="5 feet"/>
                <xsd:maxLength value="6 feet"/>
                <xsd:sex value="female"/>
                <xsd:hair value=”brunette"/>
        </xsd:restriction>
</xsd:complexType>

<xsd:complexType name=" TechnicalAspects">
        <xsd:restriction base="xsd:human">
                <xsd:minLength value=”5 feet"/>
                <xsd:maxLength value=”6 feet"/>
                <xsd:sex value="female"/>
                <xsd:hair value=”redhead"/>
        </xsd:restriction>
</xsd:complexType>
```







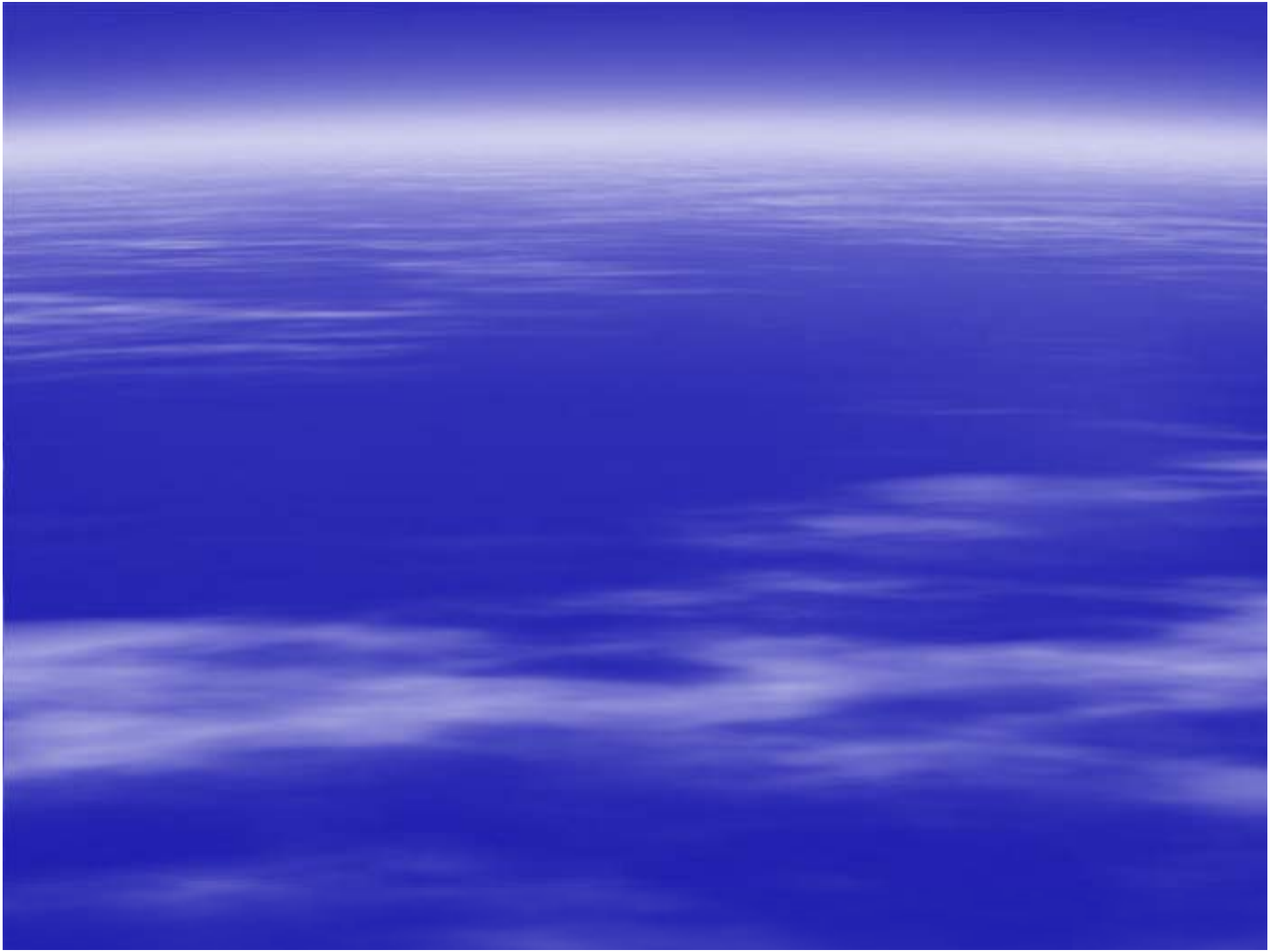


Developing the Draft Schema

Document Development Guidance

Flow Document Checklist

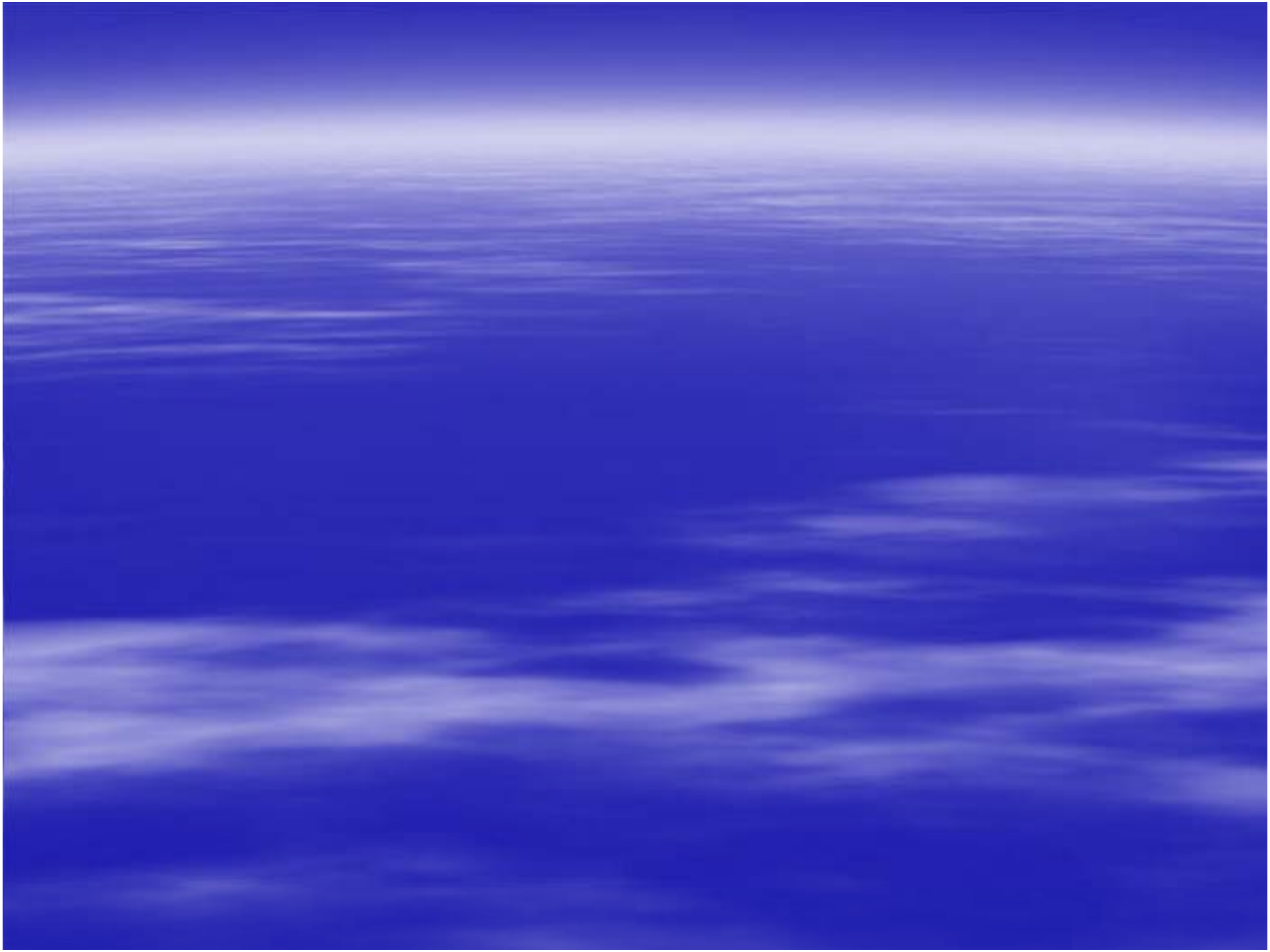
- Data Exchange Design Guidance and Best Practices
- XML Design Rules and Conventions
- Shared Schema Component Usage Guide and Technical Reference
- Approved Exchange Network Data Standards
- Core Reference Model
- XML Architecture
- Exchange Network Schema Review Process



Developing the Draft Schema

Schema Development Documentation

- XML Schema
- Data Exchange Template
- Schema Conformance Report
- Flow Configuration Document
- Example XML Instance Document
- Change Control Spreadsheet
- Additional optional documents



Universal UI Interface

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