Standard Identifiers

- Working Draft: http://www.ivoa.net/Documents/WD/

- Overview:
  - 2 Components: authority ID & resource key

    Authority ID
    - Must be globally unique
    - namespace controlled by a person, registry, or an organization
  - 2 Formats:

    XML:

    ```
    <Identifier>
        <AuthorityID>adil.ncsa.uiuc</AuthorityID>
        <ResourceKey>surveys/96.JC.01</ResourceKey>
    </Identifier>
    ```

    URI:

    ```
    ivo://adil.ncsa.uiuc/surveys/96.JC.01
    ```

Caveats

- Case-insensitive comparisons

- URI "Stop" characters: #, ?

- Identifiers are *not* location-independent
  - "organization-dependent"
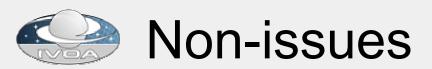 - Each mirror or version has a different identifier

Possible Issues

- Permanence/Persistance
  - Do we need to say that…
    - a resource will only ever have one ("physical") identifier?
    - an Identifier will never be reused to name another resource?

- Use of XML format, "ivo:"

  Resource is registered somewhere!

  - ADEC has adopted IVO Identifier syntax for dataset *logical* identifiers   Good!

- Standard for Logical Identifiers will be needed.

  - Based on IVOA Identifier & Registry standards
  - Plante has proposal; not necessary to consider now
    where resources can have multiple logical identifiers

Non-issues

- Who controls/assigns authority IDs: registry vs. registrant

  – Policy chosen by the publishing registry!

- Content of authority ID string

  – Conventions are <u>suggestions</u> to encourage uniqueness

  – Choice of organization that controls authority ID

Standardization

- Recommend graduating Working Draft to a Proposed Recommendation

IVOA Interoperability Conference
Registry Working Group