Using the new Server Web Properties

Harm Wibier

Data Access Europe

SYNERGY 2017

WebApp Framework

- Web Objects
  - DataFlex Classes
  - Matching JavaScript Classes
- Definitions are sent to the client
  - JavaScript Engine renders the WebApp

What are web properties?

- Available on Web Objects
- Are sent to the client
- Invented to configure the User Interface
- Can change on the client

```
{ WebProperty=True }
Property String psValue ""
```

Application State

- No persistency on the server
- Web Properties do provide persistency
  - Turned out to be a convenient place
- Application state is stored on the client

```
{ WebProperty=True }
Property String psFollowUpRowId ""

{ WebProperty=True }
Property String psFilter ""
```

Security

- Web properties can be seen and edited using browser development tools!

- Encrypted properties have been requested
- RowId's are protected by a checksum

{ WebProperty=True }
Property Integer piTennantId 1

Performance

- Web properties are sent back an forth with each request!
- Mobile devices can run on slow connections

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Why send data to the client that is not used on the client?

Server side web properties

- Same syntax as existing web properties
- Handled by the framework

```
{ WebProperty=Server }
Property String psFilter ""


Procedure OnConstrain
    String sFilter

    WebGet psFilter of oView to sFilter
```

Flavors

- { WebProperty=Server }
  - Lifetime equal to client web properties
- { WebProperty=ServerSession }
  - Lifetime equal to sessions
    - Survives page reload!
  - Shared across browser tabs

Implementation

- Stored in a single database table
  - WebAppServerProps
- Serialized to JSON by the runtime
- Page lifetime or session lifetime

```
{ WebProperty=Server }
Property String[] paCustomers ""

{ WebProperty=ServerSession }
Property String[] paCustomers ""
```

Upgrade

- New projects will have the table
- Migration will add the table

- When converting to MS SQL the WebAppServerProps.Data will be converted to varchar(MAX)

Migration

- { WebProperty=True } continues to works as
  { WebProperty=Client }

- Basically all web properties within your application can be
  changes to { WebProperty= Server } unless they have
  custom JavaScript using them

Thank you for your time!

I'll be arround for any questions you might have...