Introduction to Sitecore Services Client

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Agenda

01 Sitecore Omni
02 Sitecore Services Client
03 Item Service & Entity Service
04 OData Item Service
05 Security
06 Demo
Sitecore Omni™, a range of products that support **headless scenarios** for the different business needs in digital marketing.
Sitecore Service Client

- Introduced in Sitecore 7.5 (2015)
- Provides a service layer to develop data-driven applications
- Uses the ASP.NET Web API as a foundation
- Convention over configuration
Item Service & Entity Service

**Item Service**

- Access to regular Sitecore Items
- It provides a single HTTP endpoint and an API that you use to interact with Sitecore items over HTTP
- End point: `/sitecore/api/ssc/item`

**Entity Service**

- Access to custom business objects
- Entity Service implementation provides scaffolding to implement business objects
• An **open protocol** to allow the creation and consumption of **queryable** and **interoperable** RESTful APIs in a **simple** and **standard** way.
• A uniform way to expose full-featured data APIs
• Proposed by Microsoft in 2009
• OData v4 is standardized by OASIS
OData Item Service

- Introduced with Sitecore 9.0
- It provides read-only access to Sitecore Items
- Filter and sort options
- Endpoint: `/sitecore/api/ssc/aggregate/content/Items`

Examples:
- `/sitecore/api/ssc/aggregate/content/Items('{110D559F-DEA5-42EA-9C1C-8A5DF7E70EF9}')`
- `/sitecore/api/ssc/aggregate/content/Items('/sitecore/content/Home')`
- `/sitecore/api/ssc/aggregate/content/Items('/sitecore/content')/Children`
- `/sitecore/api/ssc/aggregate/content/Items('{110D559F-DEA5-42EA-9C1C-8A5DF7E70EF9}')/Parent`
- `/sitecore/api/ssc/aggregate/content/Items('{110D559F-DEA5-42EA-9C1C-8A5DF7E70EF9}')?$select=Id,Name,TemplateName`
Security (Authentication)

- Two routes for authentication
  - auth/login
  - auth/logout
- Token-based authentication (JWT)
- API keys for OData Item Service
  - API key item under `sitecore\system\Settings\Services\API Keys`
Security (Access Permissions)

- Provides with three security policies and an option to customize
  - ServicesOffPolicy
  - ServicesLocalOnlyPolicy (Default)
  - ServicesOnPolicy
  - Custom Security Policy

- Authorization filters
  - AnonymousUserFilter
  - SecurityPolicyAuthorisationFilter
  - LoggingExceptionFilter
  - RequireHttpsFilter
  - ServicesRequireHttpsFilter
  - Custom authorization filter
Thank you