Likhan Siddiquee

Architect

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Data publishing

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Publishing models

Content Manager | Dynamic Experience Delivery | Web Application

Static publishing

Component

Component Template

— Pre-rendered HTML → Broker — HTML fragments → CIL

DXA dynamic publishing

Component

Component Template

— DXA R2 JSON → Broker — DXA R2 JSON → DXA extension / Public Content API (GraphQL) — DXA R2 JSON → Public Content API client — semantic content models → Website

Data publishing

Component

Page

— JSON → Broker — JSON → Public Content API (GraphQL) — semantic content models → Public Content API client (optional) — semantic content models → Website

Benefits

- Improve your headless capabilities for providing omnichannel experiences

  – Because semantic content modelling on the delivery side allows you to classify content as a content type

  – OOTB Search capabilities

- Reduce total cost of ownership (TCO)

  – Because we hide the complexity of the CMS, allowing any developer to consume the data for their application

- Enjoy a shorter time to market

  – No waiting or 'content freezes'

  – Web App and data can be released separately

- Publish faster

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Data publishing

- Enabler for:
  - Tridion Sites search
  - Semantic content models
- Publishing content as structured data (JSON) next to existing rendered content
- Standard data model – no need for data modifications or custom templates
- Publish components directly without need for Dynamic Templates
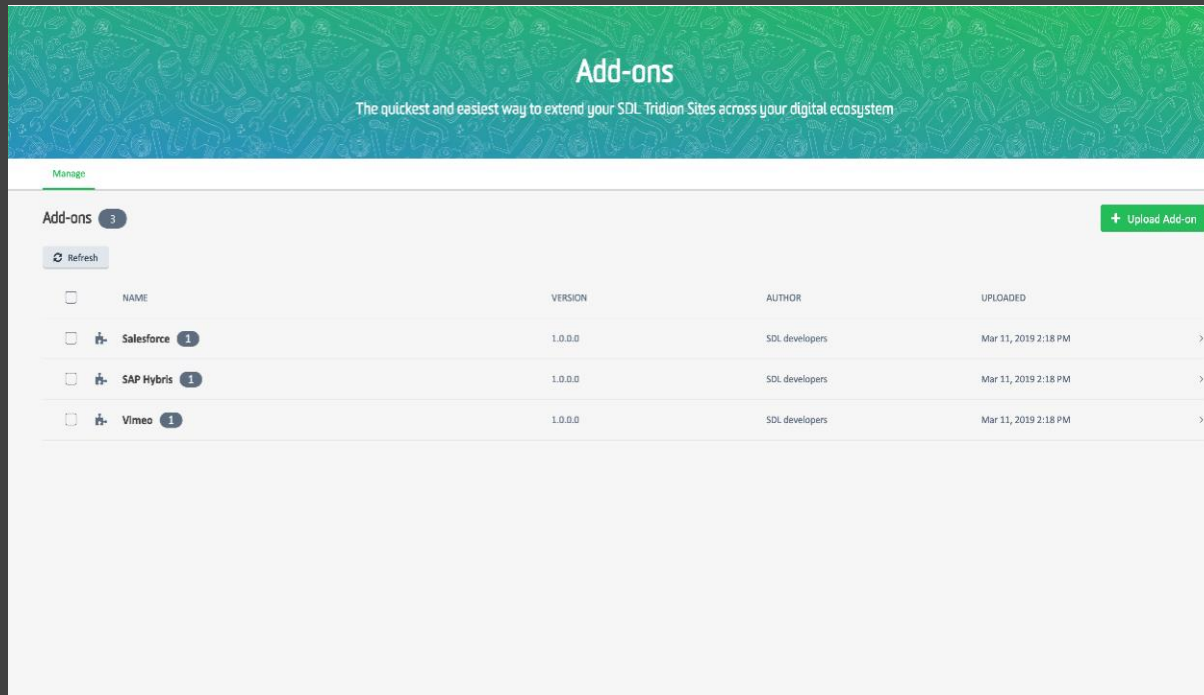 - Select components only in Page and Region without Templates

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Future improvements

- Resolve exact delta re-publish needed

- Predict publish time

- Tree shaking to minimize duplicate item publishing
  - Granular tracking which specific version has been published

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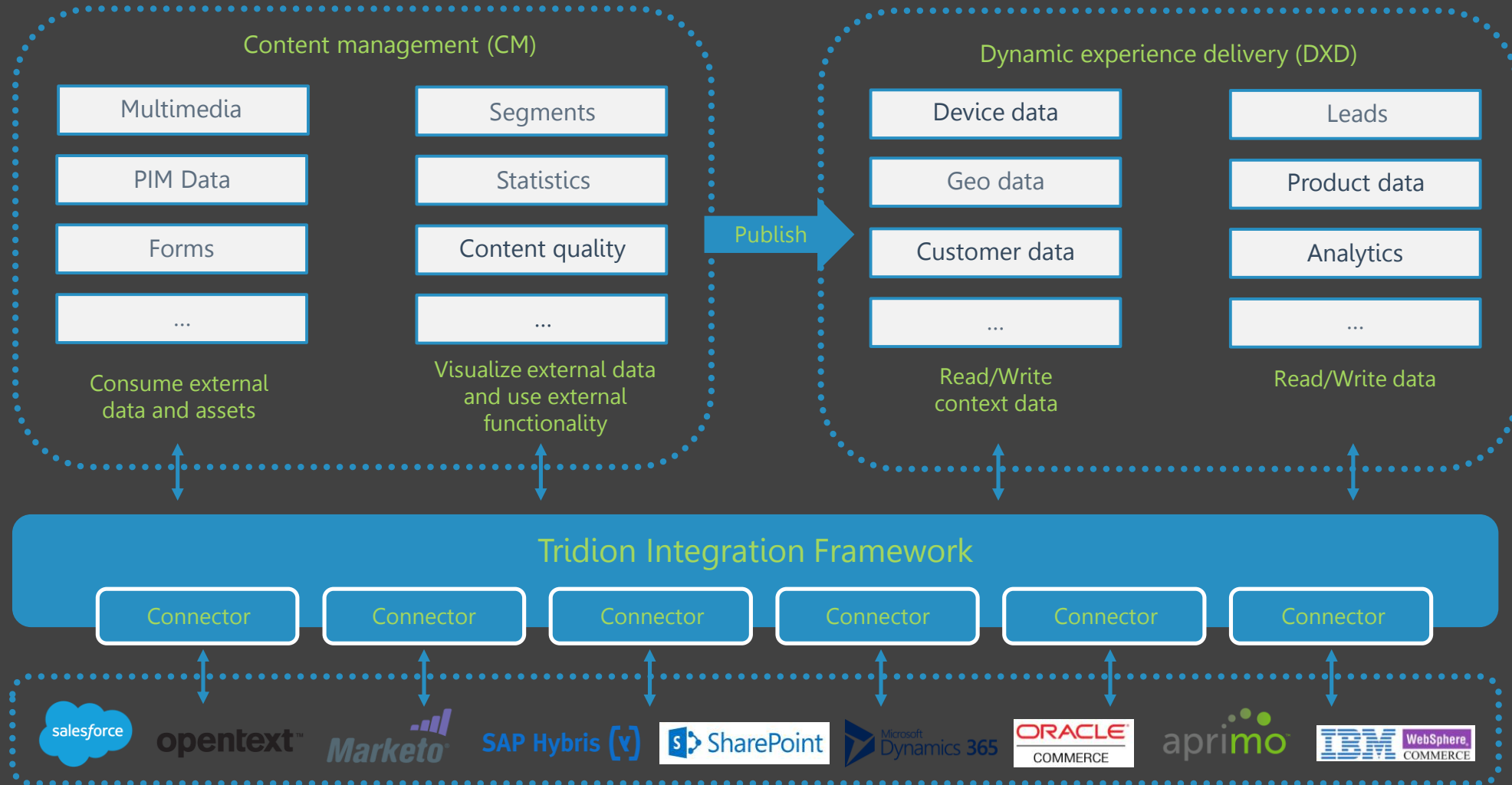# Taxonomy connector

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Tridion Integration Framework – build once, deploy everywhere

Technology-agnostic framework

- Access external data and content
- Automate processes
- Build connectors in Java, C# or both
- Reuse connectors for authoring and delivery environment
- Easy deployment of add-ons

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Tridion Integration Framework

Content management (CM)

Multimedia		Segments
PIM Data		Statistics
Forms		Content quality
...		...

Consume external data and assets

Visualize external data and use external functionality

Publish →

Dynamic experience delivery (DXD)

Device data		Leads
Geo data		Product data
Customer data		Analytics
...		...

Read/Write context data

Read/Write data

Tridion Integration Framework

Connector	Connector	Connector	Connector	Connector	Connector

salesforce · opentext™ · Marketo® · SAP Hybris · SharePoint · Microsoft Dynamics 365 · ORACLE COMMERCE · aprimo™ · IBM WebSphere COMMERCE

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Taxonomies and smart tagging

CoreService.REST

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Benefits

- Usability

- Based on OpenApi specification

- Included UI for trying out the service using the self-descriptive API specification

- Token-based authentication

- And finally

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One API to rule them all

API Response

```
[ ⊟
  { ⊟
    "$type":"Internal Category",
    "Id":"tcm:3-109-512",
    "Title":"Empty_Dummy_Category",
    "Description":"Internal Category",
    "XmlName":"internal",
    "ListLinks":[ ⊞ ],
    ...
  },
  { ⊟
    "$type":"ExternalCategory",
    "Id":"ecl:3-fsystaxonomy-146-ExternalCategory-folder",
    "Title":"FileSystem",
    "Description":"",
    "XmlName":"external",
    "ListLinks":[ ⊞ ],
    ...
  },
  { ⊟
    "$type":"ExternalCategory",
    "Id":"ecl:3-pparty-147-ExternalCategory-folder",
    "Title":"PoolParty cocktails",
    "Description":"",
    "XmlName":"cocktails",
    "ListLinks":[ ⊞ ],
    ...
  }
]
```

```
[ ⊟
  { ⊟
    "$type":"Folder",
    "Id":"tcm:3-1-2",
    "Title":"Building Blocks",
    ...
  },
  { ⊟
    "$type":"StructureGroup",
    "Id":"tcm:3-7-4",
    "Title":"Root",
    ...
  },
  { ⊟
    "$type":"ExternalContainer",
    "Id":"ecl:3-mm-root-mp-mountpoint",
    "Title":"SDL Media Manager",
    ...
  }
]
```
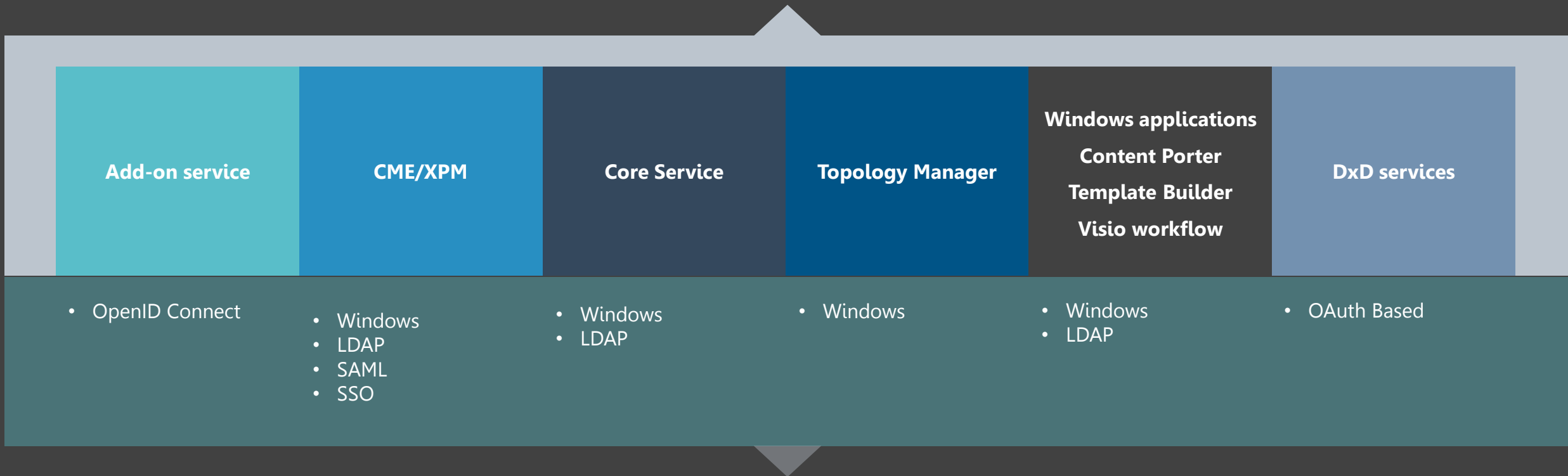
Experience Space

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Tridion Access Management

Identity provider

Identity provider

Identity provider

...

Supported authentication protocols

Applications / services

Add-on service	CME/XPM	Core Service	Topology Manager	Windows applications Content Porter Template Builder Visio workflow	DxD services
• OpenID Connect	• Windows • LDAP • SAML • SSO	• Windows • LDAP	• Windows	• Windows • LDAP	• OAuth Based

Supported authentications

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Tridion Access management architecture

Azure AD

Google ID

On-premises Windows AD

SAML IdP

SAML / OIDC

OIDC

Windows Auth / LDAP

SAML

Tridion Access Management
federation gateway / token service

OIDC

OIDC

OIDC

OIDC

OIDC

Core Service
(Post 9.5)

UI (CME/XPM/
Experience Space)

Topology
Manager (Post 9.5)

Add-on service

... (Post 9.5)

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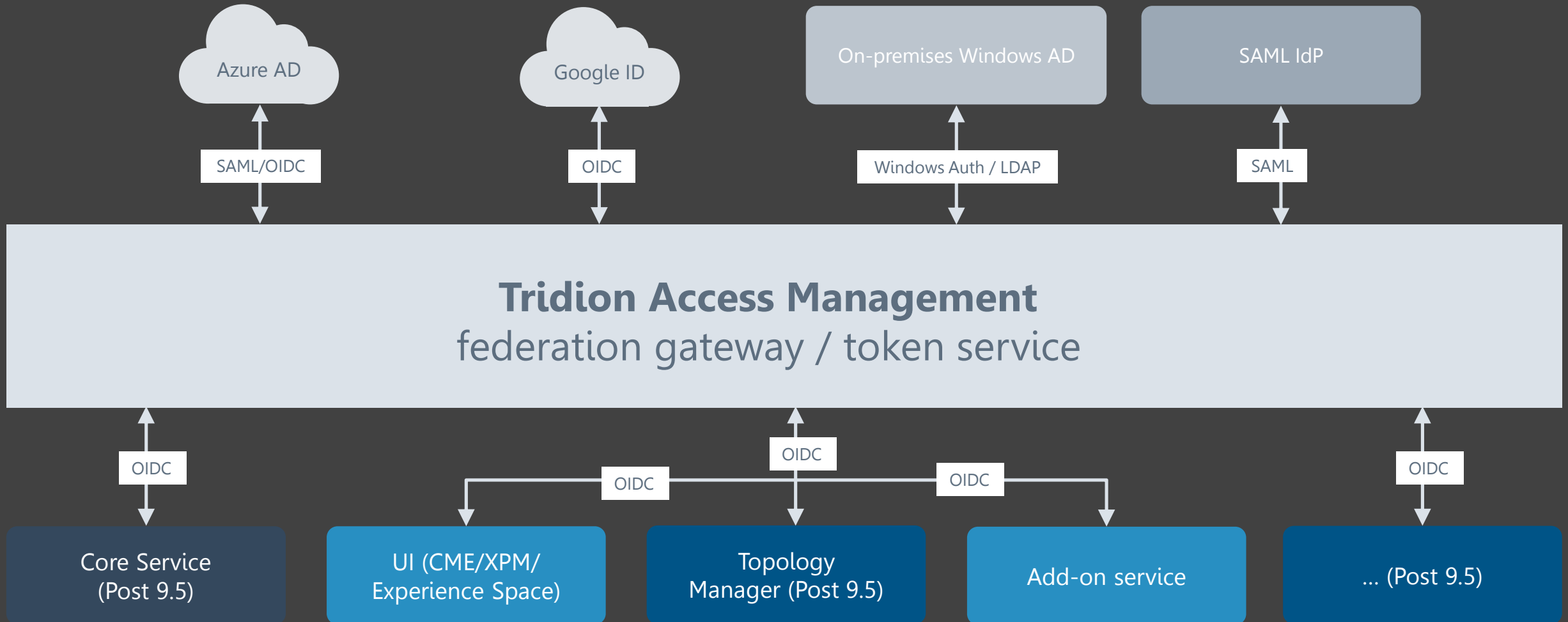
Benefits

- **Single sign-on**
  - **Multi-factor authentication (If IdP supports it)**
- **Support multiple IdP for internal and external (freelancers/temporary) users**
- **Application configuration:**
  - **External system: single application**
  - **Internal applications and services: already pre-configured**
- **Simplified implementation – single protocol support**
- **Signout**
- **Not impacted by external identity provider changes**
- **New protocols added only to Tridion Access Management**

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Supported identity provider types

- SAML 2.0

- OpenID Connect

- Windows Authentication (Only in IIS)

- LDAP

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Path to .NET Core and .NET 6

Expected changes in future

- Switch from Enterprise Library logging to Nlog

- Switch all libraries to .NET Standard

- Switch all our services to use CoreService.REST

  – SearchIndexer

  – BatchProcessor

  – WorkflowAgent

    – Workflow scripts needs to be rewritten for CoreService.REST

- Dedicated publisher for template-less publishing

  – Maybe only C#/Assembly templates might be supported

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Benefits

- Multi platform

- Lower TCO

- Microservice

- Containerization

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Question &s Answers

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