Presented by
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CENTRIC 8 NEW FEATURE PREVIEW

CentricSoftware™

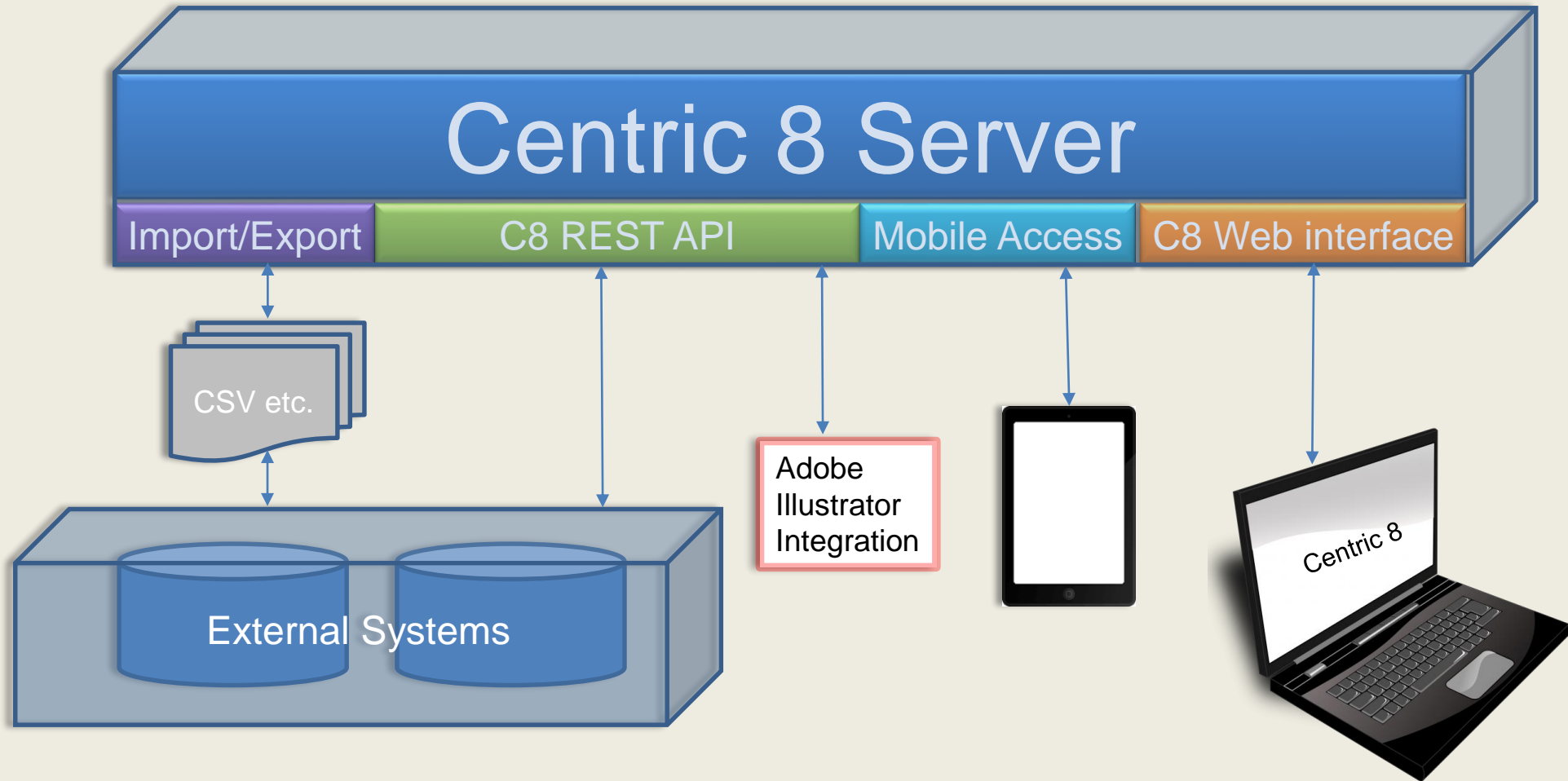# WE ARE DEVELOPING REST API FOR YOU!

WHY C8 REST API?

Till now Centric 8 integration with external enterprise systems is done using batch data import and export feature. Centric 8 REST API will make that process **simpler**, **faster** and **automated** by allowing you to write your own integration code using any web development languages of your choice.

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HOW WILL IT BENEFIT ME?

- **High performance** fine grain domain data access

- **Flexibilty** of using any web language for development

- **Quick integration** with any RESTfull system/tool

- **Domain abstraction** hides internal object complexity

C8 INTERFACES

Centric 8 Server

Import/Export | C8 REST API | Mobile Access | C8 Web interface

CSV etc.

External Systems

Adobe Illustrator Integration

Centric 8

QUICK OVERVIEW - REST

Representational State Transfer

- Most popular architecture to connect different software systems over network and internet

- Communicates over internet using Hyper Text Transfer protocol http (like web browser)

- REST Resources are accessed as URI   http://c8server/cs_response/v2/seasons

- Data gets transferred by wrapping it within JSON or XML format

- Performs **C**reate **R**ead **U**pdate **D**elete (CRUD) through http POST, GET, PUT, DELETE methods.

- Google, Amazon, SalesForce, SAP … everyone offfers REST API to access their data

JavaScript Object Notation

- Easy to understand data interchange format

- It is a subset of JavaScript

- Easy to parse

```
{
        "id": "C29585",
        "xmlCustomAttributes": [],
        "name": "Neon Green",
        "code": "",
        "description": "",
        "color_type": "NORMAL",
        "color_model": "RGB",
        "pantone": "",
        "pantone_tc": "",
        "cmyk": "(72.62%, 0.0%, 93.76%, 0.0%)",
        "rgb": -16728521,
        "rgb_hex": "#00BE37",
        "rgb_triple": "(0, 190, 55)",
        "active": true,
        "ok_for_material": true,
        "ok_for_style": true
}
```

QUICK OVERVIEW - XML

EXtensible Markup Language

- Another widely adopted data interchange format

- Provides validation capability

```xml
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<color_spec>
        <id>C29585</id>
        <name>Neon Green</name>
        <code></code>
        <description></description>
        <color_type>NORMAL</color_type>
        <color_model>RGB</color_model>
        <pantone></pantone>
        <pantone_tc></pantone_tc>
        <cmyk>(72.62%, 0.0%, 93.76%, 0.0%)</cmyk>
        <rgb>-16728521</rgb>
        <rgb_hex>#00BE37</rgb_hex>
        <rgb_triple>(0, 190, 55)</rgb_triple>
        <active>true</active>
        <ok_for_material>true</ok_for_material>
        <ok_for_style>true</ok_for_style>
</color_spec>
```

JSON & XML FORMAT SIDE BY SIDE

Same ColorSpecification data in JSON and XML format

```
{
        "id": "C29585",
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        "name": "Neon Green",
        "code": "",
        "description": "",
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        "color_model": "RGB",
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        "pantone_tc": "",
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        "rgb": -16728521,
        "rgb_hex": "#00BE37",
        "rgb_triple": "(0, 190, 55)",
        "active": true,
        "ok_for_material": true,
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```

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        <pantone_tc></pantone_tc>
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        <rgb>-16728521</rgb>
        <rgb_hex>#00BE37</rgb_hex>
        <rgb_triple>(0, 190, 55)</rgb_triple>
        <active>true</active>
        <ok_for_material>true</ok_for_material>
        <ok_for_style>true</ok_for_style>
</color_spec>
```

C8 REST API EXAMPLE

REST API: Seasons

http://c8server/csi_requesthandler

http methods

	/v2/seasons	/v2/seasons?season_id=1234	/v2/seasons?code=544&name="abc"
POST	--- Not allowed ---	Creates a specific season	--- Not allowed ---
GET	Lists all seasons	Retrieves a specific season	Retrives seasons matching the query string
PUT	--- Not allowed ---	Updates a specific season	--- Not allowed ---
DELETE	--- Not allowed ---	Delete a specific season	--- Not allowed ---

INTERACTIVE DOCUMENTATION

DEMO TIME!

Let us see how quickly we can get a list of all color specifications using REST API

REST API ROADMAP

Q4 2016

Q1 2017

Q2 2017

Q4 2016
Season
Category1
Category2
Collection
Style
StyleType
Colorway
ColorSpecification
Issue
MaterialType

Q1 2017
SKU
SKUMaterial
Material
Material Sample
Sample
Supplier
SupplierReport
SupplierItem
SupplierRequest
ColorMaterial
SizeRange
ApparelDimension
ProductSize
ProductSource
Item

Q2 2017
ApparelBOM
Factory
SpecItem
EnumList
Shape
Composition

* Product Roadmap is a plan, not a commitment

QA