

#SPSBE

New era of customizing site provisioning

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SharePoint Saturday Belgium 2018

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Agenda

- Short history of custom site provisioning
- Themes, site scripts and site designs
- Trigger Flow to start Azure Function
- Customizing site/teams creation with PowerApps and Flow
- Recommendations

Short history of custom site provisioning

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Out of the box has never been enough

We need to:

Create different types of sites

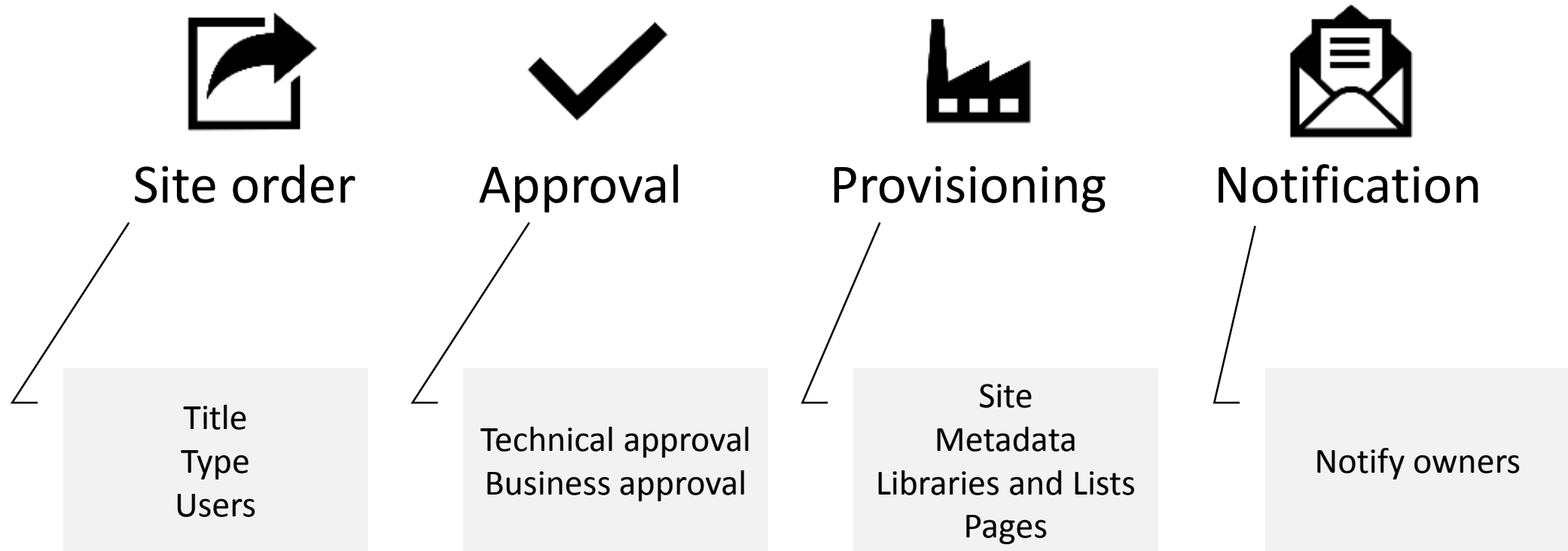
Apply company branding

Apply company metadata

Create a site directory

Fulfill custom business requirements

Typical customized provisioning solution



More than just site provisioning



Discover

SharePoint Home
Search based
Graph based



Lifecycle

Active use
Passive phase
Archival
Deletion



Ownership

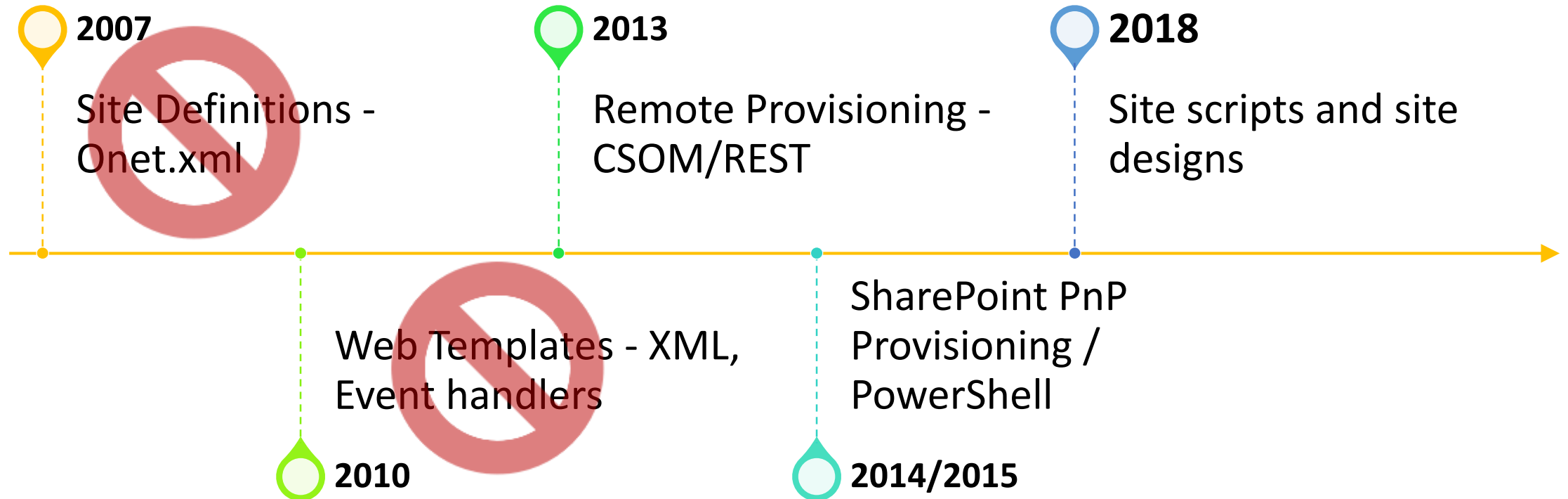
Ownership
through lifecycle



Governance

Usage
Compliance

Site Provisioning techniques



Themes, site scripts, and site designs

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Themes, site scripts and site designs

Apply to modern SharePoint Online sites only!

Team sites - Office 365 Groups, can be tied to Team

Communication sites – is your new intranet/portal solution

Themes

Theme Generator

<https://developer.microsoft.com/en-us/fabric#/styles/themegenerator>

PowerShell

Add-SPOTheme

Example and further guidance by Laura Kokkarinen

<https://laurakokkarinen.com/how-to-create-a-multicolored-theme-for-a-modern-sharepoint-online-site/>

Site Scripts

Site Script is JSON definition that describes actions and sub-actions

<https://docs.microsoft.com/en-us/sharepoint/dev/declarative-customization/site-design-json-schema>

```
JSON
{
  "$schema": "schema.json",
  "actions": [
    ...
    <one or more verb actions>
    ...
  ],
  "bindata": { },
  "version": 1
};
```

Site Script Verbs cheat sheet

createSPList - setTitle, setDescription, addSPField, addSPFieldXml, addSPLookupFieldXml, deleteSPField, addSPView, removeSPView, addContentType, removeContentType, setSPFieldCustomFormatter, associateFieldCustomizer, associateListViewCommandSet

createSiteColumn

createContentType - addSiteColumn, removeSiteColumn

addNavLink, removeNavLink, applyTheme, setSiteLogo¹⁾, joinHubSite, installSolution, associateExtension, triggerFlow, setRegionalSettings, addPrincipalToSPGroup, setExternalSharingCapability

1) Communication Site only

Demo

- Creating and modifying site scripts
 - Demo-SPSBE18SiteScripts.ps1 ← Contract documents
 - Demo-SPSBE18SiteScripts2.ps1 ← Trigger a Flow

Site Scripts: what is currently missing?

Pages and other content (available through triggerFlow action)

Content type hub support (remains to be seen)

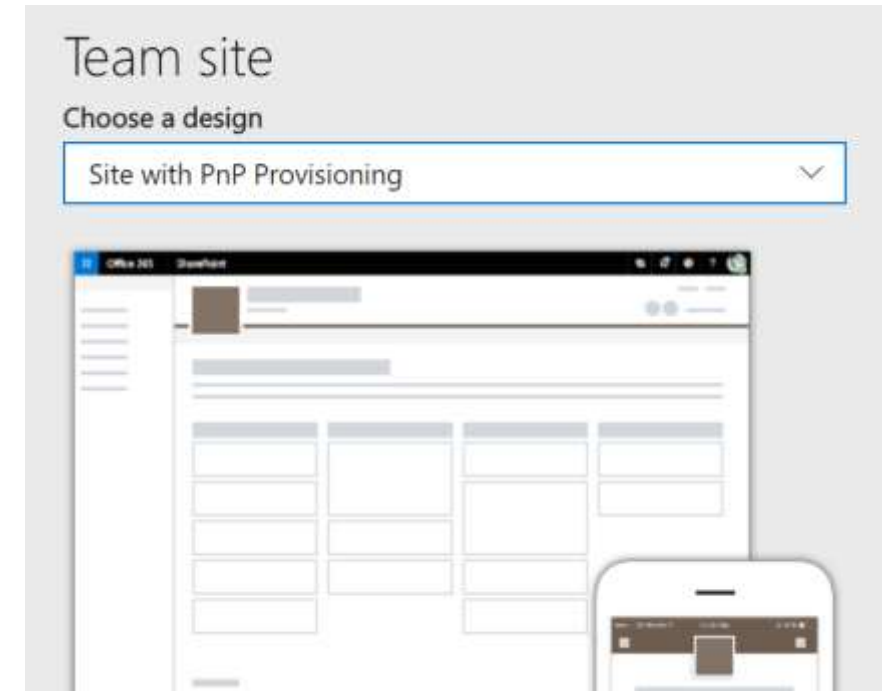
Site Designs

Site Designs allow different types of Team and Communication sites to be created

Each Site Design can have one or more associated Site Scripts

Site Designs can be targeted to specific groups of people

Default design will be applied to sites created from other interfaces (such as Teams) or PowerShell



Site Script/Design PowerShell

Add/Get/Set/Remove-SPO/PnPSiteScript

Add/Get/Set/Remove-SPO/PnPSiteDesign

Invoke-SPO/PnPSiteDesign

- To apply to existing sites
- To apply site designs when out-of-the-box UX is not in use

Get/Grant/Revoke-SPO/PnPSiteDesignRights

- For example to only allow Project managers to create Project sites

Demo

- Create and modify site designs
 - Demo-SPSBE18SiteDesigns.ps1
 - Site Designs in practice

Summary so far...

CAN

Apply theme

Apply logo to communications site

Assign permissions to static set of principals, set external sharing

Modify navigation

Create content types, columns, lists and libraries

Install solutions and add extensions

CAN'T

Create pages, web parts and content

Triggering Flow to Start Azure Function

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Starting Flow from Site Script

Trigger a flow from Site Script using triggerFlow action

Full details available at
<https://docs.microsoft.com/en-us/sharepoint/dev/declarative-customization/site-design-pnp-provisioning>

SharePoint

PR PnP Rocks!
Public group | Internal

News
+ Add

News
Keep your team engaged by sharing content and updates
Add News

Getting a few things ready
We're updating your site with additional components and settings.
60%

- ✓ Create or update list Ideas
Update list description
Create column Description
- ✓ Add Ideas to left nav
- Apply theme Multicolored by Laura
- ✓ Trigger Flow PnpProvisioning

Close



Demo

- Triggering a Flow to start Azure function

Customizing site/teams creation using PowerApps & Flow

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Why customize site creation requests?

- To collect additional data concerning the site.
- Requests need to be approved.
- To control who can create sites.
- Enforce naming conventions in site names and urls.

How about creating Teams?

Microsoft Graph API for creating a Team is in beta and does not currently support Application permissions or admin consent, but it allows Teams creation with user consent.

MicrosoftTeams PowerShell module is in preview (0.9.5) and somewhat inconsistent, but it does allow you to create teams.

Demo

- PowerApps and Flow in site provisioning

Recommendations

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Recommendations

Site designs, site scripts and PnP provisioning is the future-proof way to go.

In new site provisioning solutions, site designs are the primary choice.

Use Flow triggered Azure Functions to further extend site/teams customization.

Learn:

<https://docs.microsoft.com/en-us/sharepoint/dev/declarative-customization/site-design-overview>

PowerShell source code:

<https://github.com/ollij/Demos/tree/master/SPSBE2018-powershell>

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