

OpenUI5 Road Map

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PUBLIC



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OpenUI5

Major updates on the release and maintenance strategy

OpenUI5 is switching from a quarterly to a monthly delivery:

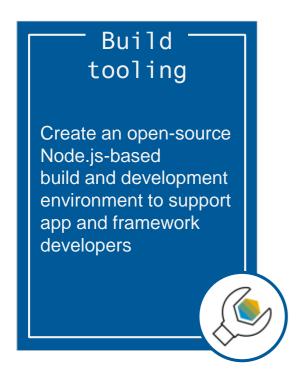
- Every four weeks a new stable version is provided for productive usage
- Version number increases by one (no longer by two).
- As a rule, every 12th stable version will be a long-term maintenance version. Maintenance phase ends after two years.
- During the maintenance phase, maintenance versions receive corrective patches (without new innovations).
- In addition, bug fixes are released with the next stable version. Exception: In case of showstoppers, the most recent version is also patched with the correction code.

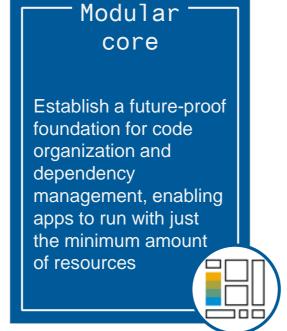
→This becomes effective as of OpenUI5 1.61←

OpenUI5

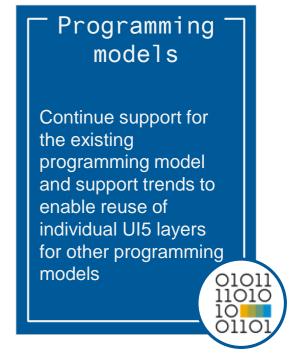
Upcoming short-term and midterm innovations

The UI5 Evolution project solves today's problems with being monolithic and having advanced framework, controls, and tooling by splitting the core, the rendering and controls, and the programming model into individual layers and enabling individual consumption.









This is the current state of planning and may be changed by SAP at any time.

OpenUI5 core

Product road map overview – Key innovations (1/2)

Recent innovations

Modular core

- New public modules, replacing legacy jquery.sap.* modules
- Introduce compatibility layers
- Module layers to differentiate jQuery/DOM usage
- New harmonized asynchronous factory APIs
- Further deprecate synchronous XHRs

Programming model

- New managed object model for data binding to properties and aggregations of managed objects (experimental)
- Support exclude filters NB, NotContains, NotEndsWith, NotStartsWith for all model implementations
- Central language-specific hyphenation mechanism
- Asynchronous preprocessor for XML templating

Planned Q1/2019¹

Modular core

More minimal core bundle

Programming model

- Better routing for (reuse) components
- Improve OData V2 message handling

Security

CSP: Avoid inline JS code

Planned Q2/2019¹

Modular core

 Partitioning of applications, such as for separate boot package

Programming model

 Release managed object model for public usage

Security

- CSP: avoid dynamic JS code
- Run CSP-enabled tests

Planned Q3/2019

Modular core

Round-off activities

Programming model

Improve OData V2 message handling

Security

CSP round-off activities

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OpenUI5 core

Product road map overview – Key innovations (2/2)

Recent innovations

OData V4 model

- Improve behavior for using \$auto groups
- OData V4 messages in responses
- Analytics by OData V4 model
 - Support for analytical table: Grand total without visual grouping

Planned Q1/2019¹

OData V4 model

- Support of read APIs on suspended bindings
- Create multiple entities without refresh
- Error messages in changesets
- Analytics by OData V4 model
 - Support for paging in chart
 - Support for analytical table with visual grouping

Planned Q2/2019¹

OData V4 model

- Masking of sensitive data
- Analytics by OData V4 model
 - Support for analytical table: Multiunit handling, type detection for aggregates, filtering before aggregation

Planned Q3/2019¹

OData V4 model

- Start adopting OData V4.01
- CRUD for collections in transient entities
- Tree support
- Analytics by OData V4 model
 - "Others" section for chart

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Product road map overview – Key innovations (1/7)

Recent innovations

General UI control aspects

- New semantic color Information for ValueState enumeration
- Drag-and-drop enablement for usecase-relevant controls
- Accessibility: Extend
 AccessibileLandmarkRole enumeration
 with roles Form and ContentInfo

Planned Q1/2019¹

Theming

Provide SAP Fiori 3 default theme

Web components

- Expose rendering layer through Web components
- Provide basic components, aligned with SAP Fiori 3 design concepts
- Align with SAP Fiori 3 default theme
- Provide documentation and playground

General UI control aspects

- CSP: Avoid inline JS code
- Drag-and-drop enablement for usecase-relevant controls
- New color palette for industry-specific colors
- Adjust controls for SAP Fiori 3 default theme usage

Planned Q2/2019¹

Theming

Provide SAP Fiori 3 dark theme

Web components**

- Enhancements based on feedback
- Extent component set based on feedback

General UI control aspects

- CSP: Avoid dynamic JS code
- Adjust controls for SAP Fiori 3 dark theme usage

Planned Q3/2019¹

Web components

- Enhancements based on feedback
- Extent component set based on feedback

General UI control aspects

- Expose semantic rendering
- Enhancements based on feedback

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Product road map overview – Key innovations (2/7)

Recent innovations

Layouts, floorplans, frameworks

Layouts and forms

- Dynamic page: Support content padding adjustment by specific CSS classes; new background design property to modify header and title transparency
- Flexible column layout: Master-detail use case; support reveal effect animation when new column opens or column width changes
- Form: Switch control in editable forms
- Object page: Enable action buttons for RTA; new functionality in anchor bar for submenu navigation and new property backgroundDesignAnchorBar for transparency; align content with the header
- Semantic page: Display different content in title for header expanded and collapsed mode; assign shrinking ratios to title area; new property titlePrimaryArea to improve title responsiveness; new CSS class to align content in header and content areas vertically

Planned Q1/2019¹

Layouts, floorplans, frameworks

Layouts and forms

- Grid: Performance optimization
- Flexible column layout:
- Full-screen use case: Hide first column
- Back navigation: UX enhancements
- Performance improvements
- Object page:
 - UX: Horizontal form arrangement

Planned Q2/2019¹

Layouts, floorplans, frameworks

Layouts and forms

- Block layout: Enhance data binding
- Dynamic page: Implement animations
- Responsive splitter: Paginator capability
- Semantic object page

Wizard

- Visual indication for validated steps
- Improve UX with animations

Planned Q3/2019

Layouts, floorplans, frameworks

Layouts and forms

- CSS grid: Enhance based on feedback
- Grid list: Enhance based on feedback

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Product road map overview – Key innovations (3/7)

Recent innovations

SAP Fiori 3 layouts

- CSS grid (new control) for creating fullpage layouts or user interface elements
- Grid list (new control): List-based control with grid layout capabilities

Planned Q1/2019¹

SAP Fiori 3 layouts

- CSS grid: IE compliance
- Grid list: Further enhancements
- Cards:
 - Provide card for list, analytics, and unrestricted content
 - Prepare back-end integration

Planned Q2/2019¹

SAP Fiori 3 layouts

- CSS grid: Enhance based on feedback
- Grid list: Enhance based on feedback
- Cards: Provide card for date/time, object, table

Planned Q3/20191

SAP Fiori 3 layouts

- CSS grid: Enhance based on feedback
- Grid list: Enhance based on feedback

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Product road map overview – Key innovations (4/7)

Recent innovations

Basic UI elements

Action

 Upload collection: Improved customization options for use cases without file uploader; align behavior of feature set (such as upload and delayed upload)

Container

- App: Hide address bar when invoked from exported home screen icon (mobile scenario)
- Panel: Visual adjustments
- P13n filter panel: Support search for empty value

Data visualization

- Color palette: Formatting of tooltips, improved formatting of color names
- Color picker: New displayMode property with options default, large, and simple; new visual design covering mobile scenario; containerbased responsiveness

Dialog

- Select dialog: Clear button
- Table select dialog: Reset button renamed to Clear; sticky header and info bar
- Color picker popover (new control): Allows color picker to be displayed as popover or dialog

Display

- Avatar: Accessibility adjustments
- Label: More color more contrast in display mode
- Image: Default value of densityAware changed to false
- Language-specific hyphenation of texts in fields with wrapping support

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Planned Q1/2019¹

Basic UI elements

Container

Tab container: Support icon and text on each tab

Display

Object status, object number: Enable larger size of object page header content

Planned Q2/2019¹

Basic UI elements

Container

- Generic tile
- Improve flexibility
- Increase amount of lines in content

Product road map overview – Key innovations (5/7)

Recent innovations

Messaging

 Message popover: Enhancements targeting navigation to affected control concept; keyboard accelerator for ALT + ENTER event; screen reader improvements

User input

- Checkbox: Enable setting for partially selected
- Combo box, multicombo box: Custom filter function, adjusted highlighting behavior
- Multi-input: Popover revealing selected items; n-more label; enable usage in table
- Multicombo box: Auto complete; n-more label (replacing multiline mode); grouping in suggestion list
- Search field: Introduce default delay time (400ms)
- Token, tokenizer: Improve keyboard handling

Toolbar

 Overflow toolbar: Shrink to min width before going into overflow; improve keyboard handling

Planned Q1/2019¹

Icon tab bar

Closing of tabs capability

User input

- Align behavior of input controls
- Enhance and align suggestion capabilities
- Enhance value states handling

Toolbar

- Overflow toolbar:
- Enhance responsiveness

Planned Q2/2019¹

User input

- Align behavior of input controls
 - Value state multiline
 - Auto-completion: Add remove option for second column of suggestion
 - Suggestion highlighting
- Select:
 - Introduce value state enhancement

Toolbar

- Overflow toolbar
 - Support link

Planned Q3/2019

Toolbar

Responsiveness enhancement when spacer is used in the toolbar

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Product road map overview – Key innovations (6/7)

Recent innovations

Planned Q1/2019¹

Planned Q2/2019¹

Planned Q3/2019

Lists and tables

List

- Container-based responsiveness
- Paste tabulator data: Paste event
- Sticky toolbar

Table

- Responsive/tree table:
 - Container-based responsiveness
 - Paste tabulator data: Paste event
- Tree table: Sticky toolbar
- Grid table: Paste tabulator data paste event

Lists and tables

List

Validation of copied/passed data

Table

- Validation of copied/passed data
- Responsive table: Introduce indicator that column is sorted
- Grid table: Multiselection and range selection

Lists and tables

Table

 Responsive table, tree: Enable scrolling with keyboard

Lists and tables

Table

Analytical table: Support OData V4

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Product road map overview – Key innovations (7/7)

Recent innovations

Planned Q1/2019¹

Planned Q2/2019¹

Planned Q3/2019

Scheduler

Date-time input

- Date picker: Local time zone/UTC format support
- Time picker: Sliders vertically centered
- Calendar, calendar legend: Clearer distinction between working and nonworking days
- Calendar: New weekNumberSelect event; week selection: introduce short cut SHIFT + SPACE; range selection: introduce short cut SHIFT + ENTER and SHIFT + left mouse button
- Planning calendar: Update background color of week numbers for a more clear guidance as to which parts of the date navigation are clickable; sticky header property released for public usage

Scheduler

Date-time input

- Planning calendar
 - Subintervals enhancements
- Single planning calendar(new control): initial scope with
 - Week view, desktop only support
 - Date navigation header area
 - Vertical timeline
 - Accessibility

Scheduler

Date-time input

- Planning calendar
 - Pin rows
 - Header alignment according to one person calendar UX definition
- Single planning calendar:
 - Month view
- Day view

Scheduler

Date-time input

- Planning calendar
 - Grouping
 - Enable interval headers in all views

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OpenUI5 tools

Product road map overview – Key innovations

Recent innovations

Support assistant

- Rules:
 - Identify deprecated use of jquery.sap
 - Identify synchronous APIs
- Rule preset management:
 - Import, export, switch between userdefined subsets of preselected rules
 - Introduce system-defined presets (incl. preset for accessibility-related rules)
- Personalize rules view
- Analysis report: Include information about rule preset used during analysis

Technical information dialog

Align mobile dialog with desktop dialog

Planned Q1/2019¹

Build tooling

- Migration tools to adapt code bases
- Enhanced production-readiness

Support assistant

 Additional rules to identify synchronous APIs

Planned Q2/2019¹

Build tooling

- Advanced bundling capabilities
- Extensibility for custom projects

Support assistant

Rule set expansion

Planned Q3/2019¹

Build tooling

Enhancements based on feedback

Support assistant

- Recording of app data
- Enhancements based on feedback

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OpenUI5 documentation

Product road map overview – Key innovations

V1.58/1.60 - Recent innovations

Planned Q1/2019¹

Demo kit

 API reference: Option to include/exclude deprecated APIs

Documentation

- Walkthrough/test tutorial: Incorporate updated QUnit and OPA best practices
- Incorporate accessibility best practices in selected tutorials

Demo apps

- Improve accessibility in selected demo apps
- Adapt to latest QUnit and OPA best practices
- Browse order: Adapt to SAP Fiori 2.0 guidelines and flexible column layout

Demo kit

- Search engine optimization
- Option to distinguish external links in API Reference

Documentation

- New best practice guide
- New quick-start tutorial
- Update grid documentation
- Document CSP compliance for apps

Documentation

Planned Q2/2019¹

- Update documentation on control lifecycle
- Update documentation on layouting
- Enhance object page sample

E-learning

New advanced openSAP course

Planned Q3/2019

Demo kit

Provide edit capabilities in code samples

Documentation

Improve documentation based on feedback

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Thank you.



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