

# GUI Release Notes

## ONOS GUI - Release Notes

This section provides a reverse-chronological summary of changes to the GUI for each release.

- [ONOS GUI - Release Notes](#)
  - [Junco – 1.9.0](#)
  - [Ibis – 1.8.0](#)
  - [Hummingbird – 1.7.0](#)
  - [Goldeneye – 1.6.0](#)
  - [Falcon – 1.5.0](#)
  - [Emu – 1.4.0](#)
  - [Drake – 1.3.0](#)
  - [Cardinal – 1.2.0](#)
  - [Blackbird – 1.1.0](#)
  - [Avocet – 1.0.0](#)

### Junco – 1.9.0

- Region-Aware Topology View:
  - Region transition animation added
  - Sprite layers added
- Partitions View added
- Table View Details Panel refactoring
- Support for Intent Viewing handled by currently active Topology view overlay

### Ibis – 1.8.0

- Region-Aware Topology View:
  - Configurations added for Regions and TopoLayers
- "Resubmit Intent" action added to Intents View
- Topology view icons updated
- Cluster View details panel added
- Local filtering added to Flow, Port, Group, and Meter views

### Hummingbird – 1.7.0

- Region-Aware Topology View:
  - Server-side modeling done
- "Brief" mode introduced to Intent, Group, and Flow views
- Continued work on re-theming UI

### Goldeneye – 1.6.0

- Overhaul of the "Look-n-Feel" (re-skinned).
- Applications View:
  - Drag-n-drop of .oar files to install and activate, now supported.
  - Auto-prompt user to refresh the UI when components are added/removed
- Topology View:
  - "Cluster node ready" checkmark indicator added.
  - Geo-map selection dialog ('G' keystroke) added.
  - Support for topology overlays to provide custom link data.
- Dialog Service
  - Support for chained dialog operations added.
- Chart Service added.
- User preferences now persisted server side.
- Logged-in user name displayed in masthead.

### Falcon – 1.5.0

- Topology View:
  - "Reset Node Locations" command ('X' keystroke) added.
  - Topology Overlay selection with F1, F2, F3... keystrokes added.
- Applications View
  - Confirmation dialog added for application activate/deactivate/uninstall.
  - Application model enhancements supported:
    - columns added for additional application attributes
    - details panel displayed when application row selected
  - Note: applications can now define custom icon and custom URL (link to documentation).
- Dialog Service:
  - Enter and Escape keys bound to OK and Cancel buttons.

## Emu – 1.4.0

- Device View:
  - Friendly name can be set on a device from the device detail panel.
- Intent View:
  - Button added to navigate to Topology View and display the selected intent.
- Topology View:
  - Traffic Overlay now selected as default.
  - Topology overlays can now highlight devices and hosts with badges (small number/text/glyph).
  - Topology overlays can invoke a dialog box to interact with the user.
- ONOS-Branded "Loading..." animation.
- Sample application (*org.onosproject.uiref*) featuring UI content injection techniques.
- GUI Archetypes (*ui*, *uitab*, *uitopo*) facilitating rapid development of applications with custom UI content.

## Drake – 1.3.0

- Authentication Enabled by default (Login screen; logout action)
- More tabular views added:
  - Settings
  - Tunnels
- Changes to Topology View:
  - Traffic re-implemented as an "overlay"
  - Overlay mechanism now programmable from ONOS Apps
    - highlighting/labeling topology links
    - full control over summary panel content
    - full control over details panel content

## Cardinal – 1.2.0

- Websocket mechanism promoted to be framework-wide; a shared resource amongst the views.
- More tabular views added:
  - Links
  - Hosts
  - Intents
  - Applications
  - Cluster Nodes
  - Device Flows (hidden view)
  - Device Ports (hidden view)
  - Device Groups (hidden view)
- Changes to the Topology View:
  - links are now selectable.
  - toolbar added (note, keystroke commands still available)
    - node layer buttons moved from masthead to toolbar
  - sprite layer added
  - user selection choices persisted across sessions
  - summary and detail panels adjust size to window height
- Changes to the Device View:
  - slide out details panel appears when a device is clicked on
- Navigation Menu changes:
  - glyphs next to links for navigation
  - views organized into categories
- Note that the legacy (Avocet) GUI has been deprecated, and that the (Angular-based) GUI loads by default.

## Blackbird – 1.1.0

- GUI Framework migrated to use [AngularJS](#).

- View-agnostic features refactored as Angular Services.
- Topology View refactored to be an Angular module.
  - Topology source code broken out into multiple source files.
  - Port Highlighting on links added.
- Device View added.
  - Implemented as a simple table for now; one device per row, sortable by column header clicks.
- Sample View added.
  - Skeletal example code.
- Light and Dark themes fully implemented.
  - Press the 'T' key to toggle theme.
- Beginnings of *UIExtension* mechanism implemented
  - Over future releases, this will facilitate the ability of Apps to inject their own content into the GUI.
- Note that the new (Angular-based) GUI currently co-exists with the old (Avocet) GUI.
  - By default, the Avocet GUI is launched; the base URL `http://localhost:8181/onos/ui` is mapped to `http://localhost:8181/onos/ui/legacy/index.html#topo`.
  - The new Angular-based GUI can be launched by manually adjusting the URL to be: `http://localhost:8181/onos/ui/index.html#topo`, (that is, remove "*legacy*").

## Avocet – 1.0.0

- GUI implemented using a home-grown framework.
- Single view (Topology View) implemented, displaying network topology and providing a certain level of interaction to show traffic & flow information.
- Although the 'T' key-binding (toggle theme) is present, the "dark" theme has not been implemented.