



# S-131 Project Team Update

## 5th IHO-Singapore Lab Governing Board

July 12th, 2023



# S-131 Project Team Progress

- GUI update
- API update
- Next Steps





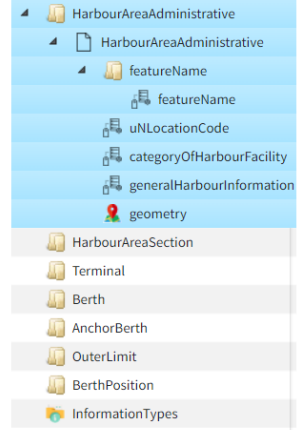
# S-131: GUI update

- Generate GUI contents from S-131 Feature Catalog
- Add Attributes (simple, complex, and Inherited) and relationships
- Identify ‘Key Feature Types’ and provide ‘shortcut’
- Support editing of all Feature and Information types
- Layer transparency/Hide/Show/Set to top, as well as hovering (Tips)

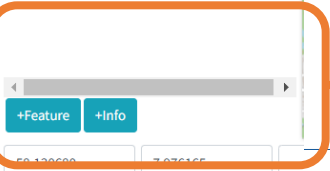
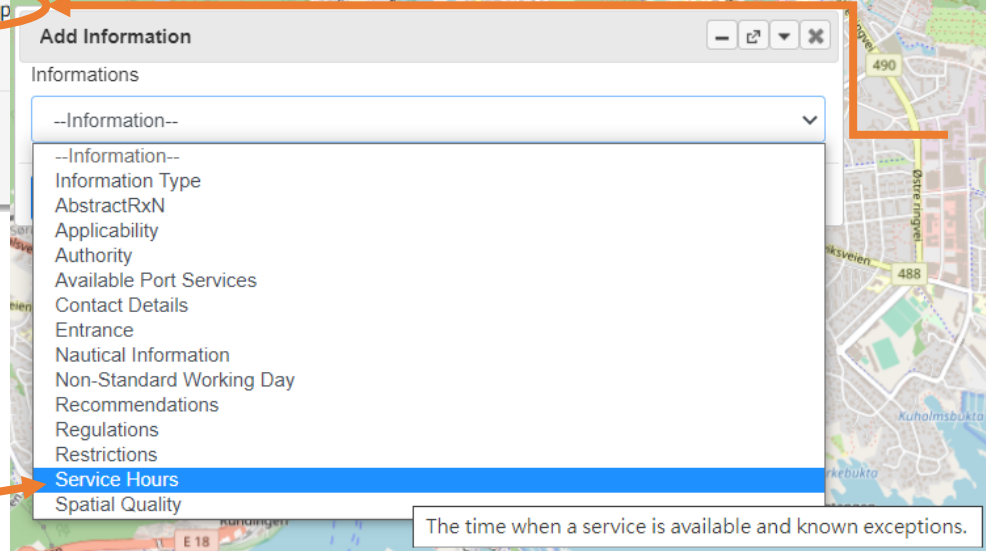
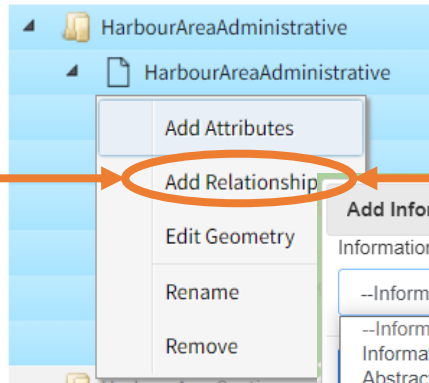


# GUI: Design and Feature Information

S131 Project Database Resour



(with multiplicity)





# GUI: Upload & Batch S-131 Feature Creation

The screenshot displays the S131 Project GUI interface. On the left, the 'CAMTR - Montreal' sidebar shows a tree view with 'Berth' selected. A context menu is open over 'Berth', with 'Add From Resource' highlighted. The main menu is also open, showing 'Upload Resource' and 'SECTION\_CAMTR' with 'BERTH\_CAMTR' circled. An 'Uploaded Resource' window is open, showing a table with the following data:

#	NO_POSTE_Q
1	M2, M3, M4, M5
2	B1, B2

An orange arrow points from the 'BERTH\_CAMTR' menu item to the 'Berth' folder in the tree view. Another orange arrow points from the 'Uploaded Resource' window to the 'Berth' folder. The map area shows a harbor with various features and a legend for 'Port Unlocode', 'SMDG Terminal Code', and 'ISPS Port Facility'. A 'Data View' table on the right shows the attribute 'Name' with the value 'B1, B2'.



# GUI: Simple, Complex & Inherited Attribution

The screenshot displays a GIS interface for the 'S131 Project'. The main window shows a map of a harbour area with a 'Berth' feature highlighted in red. The 'Add Attribute' dialog box is open, showing a list of attributes for the selected feature. The 'Available Berthing Length' attribute is highlighted in blue, and a tooltip explains it: 'The length of a berth or dock which is available for use.'

The 'Add Attribute' dialog box contains the following attributes:

- Key Attribute
- Feature Name
- UN Location Code
- Specific Attribute
- Available Berthing Length** (highlighted)
- Bollard Description
- Bollard Pull
- Minimum Berth Depth
- Elevation
- Cathodic Protection System
- Category of Berth Location
- Port Facility Number
- Bollard Number
- GLN Extension
- Metre Mark Number
- Manifold Number
- Ramp Number
- Location by Text
- Method of Securing
- Terminal Identifier



# GUI: S-131 Feature & Layer Editing

**Geometry Point**

DDMMSS

Latitude: 58

Longitude: 7

OK Cancel

**Geometry**

#	Latitude	Longitude
1	58.1375403	7.9925655
2	58.1367806	7.9902627
3	58.1351959	7.9933879
4	58.1365852	7.9949916
5	58.1375837	7.9941281

**Geometry**

	Latitude	Longitude	Edit	Delete
1	58.1376142	7.9797444	Edit	Delete
2	58.1370572	7.9835462	Edit	Delete
3	58.1379707	7.9867004	Edit	Delete
4	58.1367772	7.9932880	Edit	Delete

# S-131: API update

- Test data digitized from Singapore port info guide
- Data split into 5 groups (Layout; Physical Infrastructure; Services; Regulations; Contact Info)
- Integration continues between front end and back end
- Considering “middleware” solution





# Upcoming Steps

- Test with more sample port data (Q3 2023)
- Implement Access Control via signatures
- Invite select ports to test system (Q4 2023)
- Develop documentation
- Test bed DB release (Q2 2024)



# Thank you.

## QUESTIONS?

*With thanks to Shwu-Jing Chang (NTOU) and Jonathan Pritchard (IIC) for imagery and content*

