BC Data Catalogue Upgrade: Change Log

1. Upgrade CKAN to version 2.9
2. Upgrade Python code from 2 to 3

NOTE: See breaking changes below for further details.

CKANEXT-BCGOV:

- Removed all controllers except sitemap and OFI
- Removed before_view and after_show implementation of IPackageController CKAN interface (this was used for IDIR dataset security)
- Removed overrides of CKAN's organization_list and group_list API endpoints
- Removed override of CKAN's _group_or_org_list function
- Removed override of CKAN's package_update endpoint
- Added package_update chained action to update system values and notifications before passing to CKAN endpoint
- Updated package_update chained action to set dataset to private if visibility is set to "idir"
- Upgraded to Python 3 and ran all python files through 2to3, manually edited as needed
- Removed all files under ckanext/bcgov/forms
- Removed all pylons references and replaced them with their ckantoolkit replacements
- Removed most references in requirements.txt as this extension is no longer where the application is built
- Added new library for email validation: https://pypi.org/project/email-validator/2.0.0.post2/
- Updated before_search implementation of IPackageController CKAN interface to now only filter visibility based on state and user permissions
- Added check for composite fields to convert them to an array if they are not
  - See changes to ckanext-bcgov-schema for more information
- Converter OFI and sitemap controllers from pylons controllers to flask blueprints

- **BREAKING CHANGE** - Replaced organization_list_related endpoint with organization_or_group_list_related
  - Provides group list by default
  - Include parameter is_organization=true and it will function like the old one and return org list

CKANEXT-SSO:

- Upgraded to Python 3 and ran all python files through 2to3, manually edited as needed
- Changed to add IDIR users to top level orgs so that dataset authorization can be be handled by CKAN
- Removed code related to revisions as those don't exist in ckan 2.9

CKANEXT-BCGOV-SCHEMA:

- Updated bcdc_dataset schema to scheming version 2 (of ckanext-scheming)
- Upgraded to Python 3 and ran all python files through 2to3, manually edited as needed
- Converted bcdc_dataset schema to yaml
- Removed ckanext-composite and ckanext-repeating as they are retired and functionality was added to ckanext-scheming

- **BREAKING CHANGE** - Composite and composite-repeating presets for fields were removed
    - Fields formerly of these types now have a field called repeating_subfields defining the subfields
    - This is functionally the same for fields that were formerly composite_repeating:
        - Effected fields: contacts, more_info and dates
    - Fields that were formerly composite now need to be in arrays:
        - Effected fields: temporal_extent, preview_info and geographic_extent
        - Previous format: {subfield1: value, subfield2: value, ...}
        - New format: [{subfield1: value, subfield2: value, ...}]
        - Note that these must be arrays of length 1

- Added validator single_value_subfield to enforce array length of 1 for temporal_extent, preview_info and geographic_extent

CKANEXT-RSS:

- Upgraded to Python 3 and ran all python files through 2to3, manually edited as needed
- Converted RSS controller from pylons controller to flask blueprint

CKAN-UI:

- Updated various aspects of UI code to handle changes to schema (see changes to ckanext-bcgov-schema)
- Changed state machine form component to be radio buttons instead of a stepper