FARGO Connect Java SDK v1.5.0 Release Notes:

New features and enhancements

- Added a **serviceData** property to the **Job** class. The **serviceData** property contains the results returned from optional services performed during job processing. This initial release includes support for the **Card Read Service** which performs in-line reading of technology card chip serial numbers and PACS data during card printing. Please see the code comments in the **CardReadResults** and **CardEdgeData** classes for additional implementation details.

- Added support for decoding of card PACS bits using card formats configured in the HID FARGO Connect Web Card Designer. The PACS bits are automatically decoded when the card is printed and are reported in the job results. Please see the **PacsDecodeResults** class and the **PacsData** property of the **CardEdgeData** class.

- Updated the sample application to show card read and PACS decode results when displaying job details. Please see the **showJobDetails** method, sample PACS data, and developer notes in the sample application

- Added a **JobStatus** class containing constants for the supported job status values.

- Added a **submitDate** property to the **Job** class. The **submitDate** property is implemented as a **ZonedDateTime** referenced to the UTC time zone. The **toLocalDateTime** method can be used to convert to the local time zone.

- Added a **lastUpdate** property to the **Job** class. The **lastUpdate** property is implemented as a **ZonedDateTime** referenced to the UTC time zone. The **toLocalDateTime** method can be used to convert to the local time zone.

- Added a **getJobsForTimePeriod** method to the **JobApi** class to allow jobs within a defined look back period to be queried (e.g. jobs submitted within the last N minutes, hours, days etc.). This method addresses a common use-case of displaying a list of recent jobs. Please see the method documentation for additional details.

- Added a **getJobsForDateRange** method to the **JobApi** class to allow jobs within a defined date range to be queried. This method addresses a common use-case of displaying a list of past jobs for a specific timeframe. Please see the method documentation for additional details.

- Added **organizationalUnitName** and **locationName** properties to the **Location** class to support the common use-case of displaying a list of available locations for location selection purposes.

- Added **organizationId** and **organizationName** properties to the **ProductionProfile** class to support the use-case of displaying a list of available production profiles across multiple organizations.

- Added two overloaded **getPrintDestinations** methods to **DeviceApi** to support the common use-case of displaying a list of available print destinations.

- Added a **getOrganizationLocations** method to **OrganizationApi** to support the use-case of displaying a list of locations for an organization.

- Added an overloaded **getProductionProfiles** method that accepts an organization Id to **ProductionProfileApi** to support the use-case of displaying a list of production profiles for an organization.

- Added a **getProductionProfile** method to **ProductionProfileApi** to support the use-case of retrieving an individual production profile by production profile unique Id.

- Added support a **serviceOption** map property to the **CardRequestService** class to support configuration of job service options. See the constants in the **PrinterOption** class and the sample application for an example of configuring the card printer input hopper selection.

- Updated the SDK to use the new Core Services REST API v1.2

- Updated the Jersey library dependencies to v2.24 to v2.25.1

- Update the Bouncy Castle JCE provider dependency from v1.58 to v1.60

- Removed the dependencies on Apache Commons IO and XOM xml parser library

- Restructured the SDK to remove external FARGO Connect library dependencies. The SDK now consists of a single SDK jar file and its associated third-party dependencies.

- Restructured the SDK to simplify the code by making better use of generics.

- Modified library exception handling to eliminate the use of checked exceptions.

Breaking Changes:

- Removed the **baseUri** property from the **CardServicesClient** class and made the remaining properties read only. This change should not impact existing code since all client configuration settings are managed by the **CardServicesClientConfig** class.

- Renamed the **name** property of the **Location** class to **locationName** for consistency with the other language SDKs.

- Removed the **LocationApi** and **OrganizationalUnitApi** classes and corresponding **getLocationApi()** and **getOrganizationalUnitApi()** methods from the **Client** class. The methods from the removed classes are now contained in the **OrganizationApi** class. References to the **getLocationApi()** and **getOrganizationalUnitApi()** methods should be replaced with the **getOrganizationApi()** method.

- Removed the **getJobs** method from the **JobApi** class. Methods **getJobsForTimePeriod** and **getJobsForDateRange** were added as replacements for the **getJobs** method. These new methods provide additional capabilities and address performance considerations.

- Modified **ProductionProfileApi** to simplify the production profile configuration process and align the SDK design with the other language SDKs. Please see the provided sample application for usage of the revised production profile API.

    1. Modified the **getProductionProfileParams** method of **ProductionProfileApi** to return a **ProductionProfileConfig** object in place of an array of **ProductionProfileParameter** objects. This change eliminates the step of creating a **ProductionProfileConfiguration** object.

    2. Renamed the **getProductionProfileParams** method of the **ProductionProfileApi** class to **getProductionProfileParameters**.

    3. Added a new **ProductionProfileConfig** class that contains the profile unique Id and production profile parameters. The profile parameters previously were returned directly by the **getProductionProfileParams** method.

    4. Modified the **configureProductionProfile** method of the **ProductionProfileApi** to accept the new **ProductionProfileConfig** class in place of the **ProductionProfileConfiguration** class.

- Enabled strict enforcement of isolation between organizations for consistency with the other language SDKs. This change was necessary to support the multi-tenancy requirements of the HID FARGO Connect cloud offering. Applications using the HID FARGO Connect client SDKs are now able to see and access only objects contained within the organization for which the SDK API Key was issued. This change should have little if any impact on existing SDK integrations since all existing production deployments of HID FARGO Connect are configured with a single organization. SDK users requiring cross-organizational access can use separate API Keys to access individual organizations. Official SDK support for cross-organizational roles and permissions are planned for a future release of HID FARGO Connect to provide greater flexibility for multi-tenant aware applications.