

1 OPP-115 mapping

Table 1: Personal data processing scenarios and their mappings to P2Onto

No.	OPP nario	Sce- nario	OPP ttribute	At- tribute	OPP Value	P2Onto Concept
1	User Access, Edit and Deletion	Access Scope	Access Type	Scope	User account data	User → UserAccessActivity → AccountData
					Other data about user	User → UserAccessActivity → NonSensitiveData
					Profile data	User → UserAccessActivity → SensitiveData
					Transactional data	User → UserAccessActivity → FinancialData
					Other	User → UserAccessActivity → Data
2	International and Specific Audiences	Audience Type	Audience Type	Type	All Available	User → UserAccessActivity → DataControlMechanism
					All Available	User → UserSpecialCategory
3	Policy Change	Change Type	Change Type	Type	Privacy relevant change	FirstParty → PolicyChangeActivity → PrivacyRelatedCause
					Non-privacy relevant change	FirstParty → PolicyChangeActivity → NonPrivacyRelatedCause
					In case of merger or acquisition	FirstParty → PolicyChangeActivity → MergeAcquisitionCause
					Other	FirstParty → PolicyChangeActivity → OtherCause
					User Choice	User → UserOptControl
					Notification Type	FirstParty → PolicyChangeActivity → NotificationMechanism (as more generalized mechanism since we do not have it specified)
					General notice on website	FirstParty → PolicyChangeActivity → OnWebsitePage
					Other	FirstParty → PolicyChangeActivity → NotificationMechanism
					General notice in privacy policy	FirstParty → PolicyChangeActivity → InPrivacyPolicy
					Other	Activity → SecurityMeasure (the activity is generic because the security measure is not connected to specific activity)
4	Data Security	Security Measure	Security Measure	Measure	Privacy / Security program	Activity → TechnicalSecurityMeasure (the activity is generic because the security measure is not connected to specific activity)
					Secure user authentication	
					Secure data storage	
					Data access limitation	
					Secure data transfer	
					Privacy review / audit	Activity → OrganizationalSecurityMeasure (the activity is generic because the security measure is not connected to specific activity)
					Privacy training	
					Other	Activity → SecurityMeasure (the activity is generic because the security measure is not connected to specific activity)
					Collection	FirstParty → DataCollectionActivity (defines if the activity is for collection)
					Use	FirstParty → DataUseActivity (defines if the activity is for use)
					Both	FirstParty → DataCollectionActivity & DataUseActivity (defines if the activity is for both collection and use, in such a case activity will have 2 parent classes)
					Collection Mode	FirstParty → DataCollectionActivity / DataUseActivity → DataCollectionMechanism
					Purpose	FirstParty → DataCollectionActivity / DataUseActivity → DataActivityPurpose
					Action First-Party	FirstParty → DataCollectionActivity / DataUseActivity → DataCollectionMechanism
					Generic personal information	FirstParty → DataCollectionActivity / DataUseActivity → PersonalData
5	First Party Collection / Use	Choice Scope	Choice Scope	Scope	Location	FirstParty → DataCollectionActivity / DataUseActivity → NonSensitiveData
					Social media data	FirstParty → DataCollectionActivity / DataUseActivity → NonSensitiveData
					User online activities	FirstParty → DataCollectionActivity / DataUseActivity → NonSensitiveData
					Cookies and tracking elements	FirstParty → DataCollectionActivity / DataUseActivity → TrackingData
					Personal identifier	FirstParty → DataCollectionActivity / DataUseActivity → UserAccountData
					Computer information	FirstParty → DataCollectionActivity / DataUseActivity → UserDeviceInfo
					User profile	FirstParty → DataCollectionActivity / DataUseActivity → SensitiveData
					IP address and device IDs	FirstParty → DataCollectionActivity / DataUseActivity → TrackingData
					Survey data	FirstParty → DataCollectionActivity / DataUseActivity → SensitiveData
					Contact	FirstParty → DataCollectionActivity / DataUseActivity → NonSensitiveData
					Generic personal information	FirstParty → DataCollectionActivity / DataUseActivity → PersonalData
					Location	FirstParty → DataCollectionActivity / DataUseActivity → NonSensitiveData
					Social media data	FirstParty → DataCollectionActivity / DataUseActivity → NonSensitiveData

Table 2: Personal data processing scenarios and their mappings to P2Onto

No.	OPP nario	Sce-	OPP tribute	At-	OPP Value	P2Onto Concept
6	Third Sharing / Collection	Party	Party Choice Scope	First-Party	Demographic	FirstParty → DataCollectionActivity / DataUseActivity → SensitiveData
					Health	FirstParty → DataCollectionActivity / DataUseActivity → HealthData
					Financial	FirstParty → DataCollectionActivity / DataUseActivity → FinancialData
					Other	FirstParty → DataCollectionActivity / DataUseActivity → Data
					Identifiability	All Available FirstParty → DataCollectionActivity / DataUseActivity → Pseudoanonymization
					Collection	ThirdParty → DataCollectionActivity (defines if the activity is for collection)
					Use	ThirdParty → DataUseActivity (defines if the activity is for use)
					Both	ThirdParty → DataCollectionActivity & DataUseActivity (defines if the activity is for both collection and use, in such a case activity will have 2 parent classes)
					Collection Mode	ThirdParty → DataCollectionActivity / DataUseActivity → DataCollectionMechanism → DataCollectionMode
					Purpose	All Available ThirdParty → DataCollectionActivity / DataUseActivity → DataActivityPurpose
					Action First-Party	All Available ThirdParty → DataCollectionActivity / DataUseActivity → DataCollectionMechanism
					Generic personal information	ThirdParty → DataCollectionActivity / DataUseActivity → PersonalData
					Location	ThirdParty → DataCollectionActivity / DataUseActivity → NonSensitiveData
					Social media data	ThirdParty → DataCollectionActivity / DataUseActivity → NonSensitiveData
					User online activities	ThirdParty → DataCollectionActivity / DataUseActivity → NonSensitiveData
					Cookies and tracking elements	ThirdParty → DataCollectionActivity / DataUseActivity → TrackingData
					Personal identifier	ThirdParty → DataCollectionActivity / DataUseActivity → UserAccountData
					Computer information	ThirdParty → DataCollectionActivity / DataUseActivity → UserDeviceInfo
					User Profile	ThirdParty → DataCollectionActivity / DataUseActivity → SensitiveData
					IP address and device IDs	ThirdParty → DataCollectionActivity / DataUseActivity → TrackingData
					Survey data	ThirdParty → DataCollectionActivity / DataUseActivity → SensitiveData
					Contact	ThirdParty → DataCollectionActivity / DataUseActivity → NonSensitiveData
					Demographic	ThirdParty → DataCollectionActivity / DataUseActivity → SensitiveData
					Health	ThirdParty → DataCollectionActivity / DataUseActivity → HealthData
					Financial	ThirdParty → DataCollectionActivity / DataUseActivity → FinancialData
7	Data Retention	Party	Personal Information Type	First-Party	Identifiability	All Available ThirdParty → DataCollectionActivity / DataUseActivity → Pseudoanonymization
					User Profile	FirstParty → DataRetentionActivity → SensitiveData
					Generic personal information	FirstParty → DataRetentionActivity → PersonalData
					Location	FirstParty → DataRetentionActivity → NonSensitiveData
					Social media data	FirstParty → DataRetentionActivity → NonSensitiveData
					User online activities	FirstParty → DataRetentionActivity → NonSensitiveData
					Cookies and tracking elements	FirstParty → DataRetentionActivity → TrackingData
					Personal identifier	FirstParty → DataRetentionActivity → UserAccountData
					Computer information	FirstParty → DataRetentionActivity → UserDeviceInfo
					User profile	FirstParty → DataRetentionActivity → SensitiveData
					IP address and device IDs	FirstParty → DataRetentionActivity → TrackingData
					Survey data	FirstParty → DataRetentionActivity → SensitiveData
					Contact	FirstParty → DataRetentionActivity → NonSensitiveData
					Demographic	FirstParty → DataRetentionActivity → SensitiveData
					Health	FirstParty → DataRetentionActivity → HealthData
					Financial	FirstParty → DataRetentionActivity → FinancialData
					Retention Purpose	All Available FirstParty → DataRetentionActivity → DataActivityPurpose
					Retention Period	All Available FirstParty → DataRetentionActivity → DataRetentionTime
8	User Choice / Control	Party	Personal Information Type	First-Party	Purpose	All Available User → UserPrivacyControl → DataActivityPurpose
					User Profile	User → UserPrivacyControl → SensitiveData
					Generic personal information	User → UserPrivacyControl → PersonalData
					Location	User → UserPrivacyControl → NonSensitiveData
					Social media data	User → UserPrivacyControl → NonSensitiveData

Table 3: Personal data processing scenarios and their mappings to P2Onto

No.	OPP nario	Sce-	OPP tribute	At-	OPP Value	P2Onto Concept
					User online activities	User → UserPrivacyControl → NonSensitiveData
					Cookies and tracking elements	User → UserPrivacyControl → TrackingData
					Personal identifier	User → UserPrivacyControl → UserAccountData
					Computer information	User → UserPrivacyControl → UserDeviceInfo
					User profile	User → UserPrivacyControl → SensitiveData
					IP address and device IDs	User → UserPrivacyControl → TrackingData
					Survey data	User → UserPrivacyControl → SensitiveData
					Contact	User → UserPrivacyControl → NonSensitiveData
					Demographic	User → UserPrivacyControl → SensitiveData
					Health	User → UserPrivacyControl → HealthData
					Financial	User → UserPrivacyControl → FinancialData
			Choice Type		All Available	User → UserPrivacyControl → DataControlMechanism
9	Do Not Track	—	—	—	—	—

2 OPP-115 structure

Listing 1: Personal data processing scenarios and their bindings to P2Onto

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{
  "Policy Change": {
    "Notification Type": [
      "Personal notice",
      "General notice on website",
      "Unspecified",
      "Other",
      "No notification",
      "General notice in privacy policy"
    ],
    "Change Type": [
      "In case of merger or acquisition",
      "Unspecified",
      "Non-privacy relevant change",
      "Other",
      "Privacy relevant change"
    ],
    "User Choice": [
      "User participation",
      "Opt-out",
      "None",
      "Unspecified",
      "Other",
      "Opt-in"
    ]
  },
  "Data Security": {
    "Security Measure": [
      "Secure user authentication",
      "Privacy review/audit",
      "Other",
      "Secure data transfer",
      "Unspecified",
      "Privacy/Security program",
      "Secure data storage",
      "Data access limitation",
      "Generic",
      "Privacy training"
    ]
  },
  "Do Not Track": {

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    "Do Not Track policy": [
        "Other",
        "Mentioned, but unclear if honored",
        "Honored",
        "Not honored"
    ]
},
"Third Party Sharing/Collection": {
    "Purpose": [
        "Personalization/Customization",
        "Merger/Acquisition",
        "Basic service/feature",
        "Service operation and security",
        "Unspecified",
        "Additional service/feature",
        "Other",
        "Marketing",
        "Advertising",
        "Legal requirement",
        "Analytics/Research"
    ],
    "Does/Does Not": [
        "Does",
        "Does Not"
    ],
    "Identifiability": [
        "not-selected",
        "Unspecified",
        "Aggregated or anonymized",
        "Other",
        "Identifiable"
    ],
    "Action Third Party": [
        "Track on first party website/app",
        "Receive/Shared with",
        "See",
        "Unspecified",
        "Other",
        "Collect on first party website/app"
    ],
    "Personal Information Type": [
        "Demographic",
        "Location",
        "User online activities",
        "Computer information",
        "Survey data",
        "Cookies and tracking elements",
        "Contact",
        "Personal identifier",
        "User Profile",
        "Unspecified",
        "Generic personal information",
        "Financial",
        "IP address and device IDs",
        "Other",
        "Health"
    ],
    "User Type": [
        "not-selected",
        "Unspecified",
        "User with account",
        "Other",
        "User without account"
    ],
    "Choice Type": [

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        "not-selected",
        "First-party privacy controls",
        "Opt-out link",
        "Opt-out via contacting company",
        "Dont use service/feature",
        "Browser/device privacy controls",
        "Unspecified",
        "Other",
        "Third-party privacy controls",
        "Opt-in"
    ],
    "Third Party Entity": [
        "Other users",
        "Unnamed third party",
        "Public",
        "Named third party",
        "Unspecified",
        "Other",
        "Other part of company/affiliate"
    ],
    "Choice Scope": [
        "not-selected",
        "Use",
        "Unspecified",
        "Both",
        "Collection"
    ]
},
"User Choice/Control": {
    "Purpose": [
        "Personalization/Customization",
        "Merger/Acquisition",
        "Basic service/feature",
        "Service Operation and Security",
        "Unspecified",
        "Additional service/feature",
        "Other",
        "Marketing",
        "Advertising",
        "Legal requirement",
        "Analytics/Research"
    ],
    "Personal Information Type": [
        "Location",
        "Demographic",
        "User online activities",
        "Computer information",
        "User profile",
        "Contact",
        "Cookies and tracking elements",
        "Social media data",
        "Personal identifier",
        "IP address and device IDs",
        "Unspecified",
        "Generic personal information",
        "Financial",
        "Survey data",
        "Other",
        "Health"
    ],
    "User Type": [
        "not-selected",
        "Unspecified",
        "User with account",
        "Other",

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        "User without account"
    ],
    "Choice Type": [
        "First-party privacy controls",
        "Opt-out link",
        "Opt-out via contacting company",
        "Dont use service/feature",
        "Browser/device privacy controls",
        "Unspecified",
        "Other",
        "Third-party privacy controls",
        "Opt-in"
    ],
    "Choice Scope": [
        "Third party sharing/collection",
        "Third party use",
        "Unspecified",
        "First party use",
        "First party collection"
    ]
},
    "Data Retention": {
        "Retention Purpose": [
            "Perform service",
            "Service operation and security",
            "Unspecified",
            "Other",
            "Marketing",
            "Advertising",
            "Legal requirement",
            "Analytics/Research"
        ],
        "Personal Information Type": [
            "Location",
            "Demographic",
            "User online activities",
            "Computer information",
            "User profile",
            "Cookies and tracking elements",
            "Contact",
            "Social media data",
            "Personal identifier",
            "IP address and device IDs",
            "Unspecified",
            "Generic personal information",
            "Financial",
            "Survey data",
            "Other",
            "Health"
        ],
        "Retention Period": [
            "Limited",
            "Unspecified",
            "Stated Period",
            "Other",
            "Indefinitely"
        ]
    },
    "First Party Collection/Use": {
        "Purpose": [
            "Personalization/Customization",
            "Merger/Acquisition",
            "Basic service/feature",
            "Service Operation and Security",
            "Marketing",

```

```

        "Unspecified",
        "Additional service/feature",
        "Other",
        "Analytics/Research",
        "Advertising",
        "Legal requirement"
    ],
    "Does/Does Not": [
        "Does",
        "Does Not"
    ],
    "Identifiability": [
        "not-selected",
        "Unspecified",
        "Aggregated or anonymized",
        "Other",
        "Identifiable"
    ],
    "Action First-Party": [
        "Collect in mobile app",
        "Receive from other parts of company/affiliates",
        "Receive from other service/third-party (named)",
        "Receive from other service/third-party (unnamed)",
        "Collect from user on other websites",
        "Collect on mobile website",
        "Track user on other websites",
        "Unspecified",
        "Other",
        "Collect on website"
    ],
    "Collection Mode": [
        "not-selected",
        "Implicit",
        "Unspecified",
        "Explicit"
    ],
    "Personal Information Type": [
        "Location",
        "Demographic",
        "User online activities",
        "Computer information",
        "User profile",
        "Contact",
        "Cookies and tracking elements",
        "Social media data",
        "Personal identifier",
        "IP address and device IDs",
        "Unspecified",
        "Generic personal information",
        "Financial",
        "Survey data",
        "Other",
        "Health"
    ],
    "User Type": [
        "not-selected",
        "Unspecified",
        "User with account",
        "Other",
        "User without account"
    ],
    "Choice Type": [
        "not-selected",
        "First-party privacy controls",
        "Opt-out link",

```

```

        "Opt-out via contacting company",
        "Dont use service/feature",
        "Browser/device privacy controls",
        "Unspecified",
        "Other",
        "Third-party privacy controls",
        "Opt-in"
    ],
    "Choice Scope": [
        "not-selected",
        "Use",
        "Unspecified",
        "Both",
        "Collection"
    ]
},
"International and Specific Audiences": {
    "Audience Type": [
        "Children",
        "Citizens from other countries",
        "Europeans",
        "Californians",
        "Other"
    ]
},
"User Access, Edit and Deletion": {
    "Access Scope": [
        "Profile data",
        "Other data about user",
        "Unspecified",
        "User account data",
        "Other",
        "Transactional data"
    ],
    "User Type": [
        "not-selected",
        "Unspecified",
        "User with account",
        "Other",
        "User without account"
    ],
    "Access Type": [
        "Export",
        "Edit information",
        "Deactivate account",
        "View",
        "Delete account (partial)",
        "None",
        "Unspecified",
        "Delete account (full)",
        "Other"
    ]
},
"Other": {
    "Other Type": [
        "Introductory/Generic",
        "Practice not covered",
        "Privacy contact information",
        "Other"
    ]
}
}

```