DV approval status configuration

Revision   History

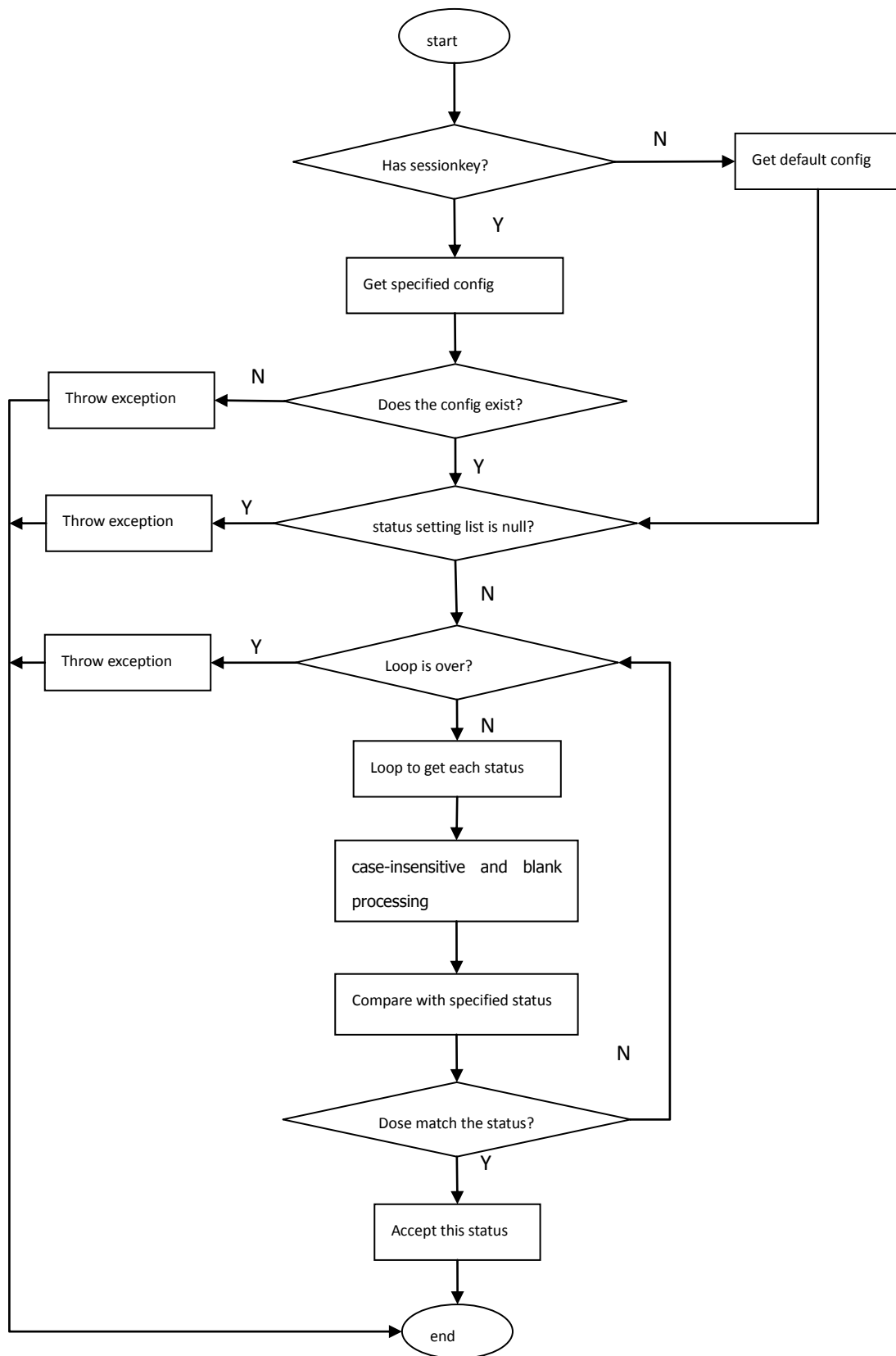| 1.0	Ricky	2011/4/15

Summary of objectives

   This document describe the approval status configurable function. This function aim to implement a flexible way to accept new approval statuses.

New functionality required

1) All acceptable approval status types are configured by DaVinci Server, the approval status types that are not in the list of DaVinci Server will be ignored and return error message to client;

2) Client side approval status types can be configured independently. All configured approval status types in client side will be displayed in DaVinci client, normal client & compare client, and the approval status(es) exist in artwork's note.xml but not exist in client side configuration.xml will be named as 'unknown type' in DaVinci client.

Details description & Flow

1) Approval status validate in DV server

```
                              ┌─────────┐
                              │  start  │
                              └────┬────┘
                                   │
                                   ▼
            ◇──────────────────────────────◇      N      ┌──────────────────┐
            │        Has sessionkey?        ├──────────▶ │ Get default config│
            ◇──────────────────────────────◇            └────────┬─────────┘
                                   │ Y                            │
                                   ▼                              │
                          ┌──────────────────┐                   │
                          │ Get specified config│                 │
                          └────────┬─────────┘                   │
                                   │                              │
                                   ▼                              │
  ┌──────────────┐   N   ◇──────────────────────────────◇        │
  │Throw exception│◀──────│     Does the config exist?    │       │
  └──────────────┘        ◇──────────────────────────────◇        │
                                   │ Y                            │
                                   ▼                              │
  ┌──────────────┐   Y   ◇──────────────────────────────◇        │
  │Throw exception│◀──────│     status setting list is null? │◀────┘
  └──────────────┘        ◇──────────────────────────────◇
                                   │ N
                                   ▼
  ┌──────────────┐   Y   ◇──────────────────────────────◇
  │Throw exception│◀──────│         Loop is over?         │◀────────┐
  └──────────────┘        ◇──────────────────────────────◇         │
                                   │ N                              │
                                   ▼                                │
                          ┌──────────────────┐                     │
                          │ Loop to get each status│                │
                          └────────┬─────────┘                     │
                                   │                                │
                                   ▼                                │
                          ┌──────────────────┐                     │
                          │ case-insensitive and blank│             │
                          │ processing        │                     │
                          └────────┬─────────┘                     │
                                   │                                │
                                   ▼                                │
                          ┌──────────────────┐                     │
                          │Compare with specified status│           │
                          └────────┬─────────┘                     │
                                   │                          N     │
                                   ▼                                │
                          ◇──────────────────────────────◇         │
                          │     Dose match the status?    ├─────────┘
                          ◇──────────────────────────────◇
                                   │ Y
                                   ▼
                          ┌──────────────────┐
                          │  Accept this status│
                          └────────┬─────────┘
                                   │
                                   ▼
                              ┌─────────┐
                              │   end   │
                              └─────────┘
```
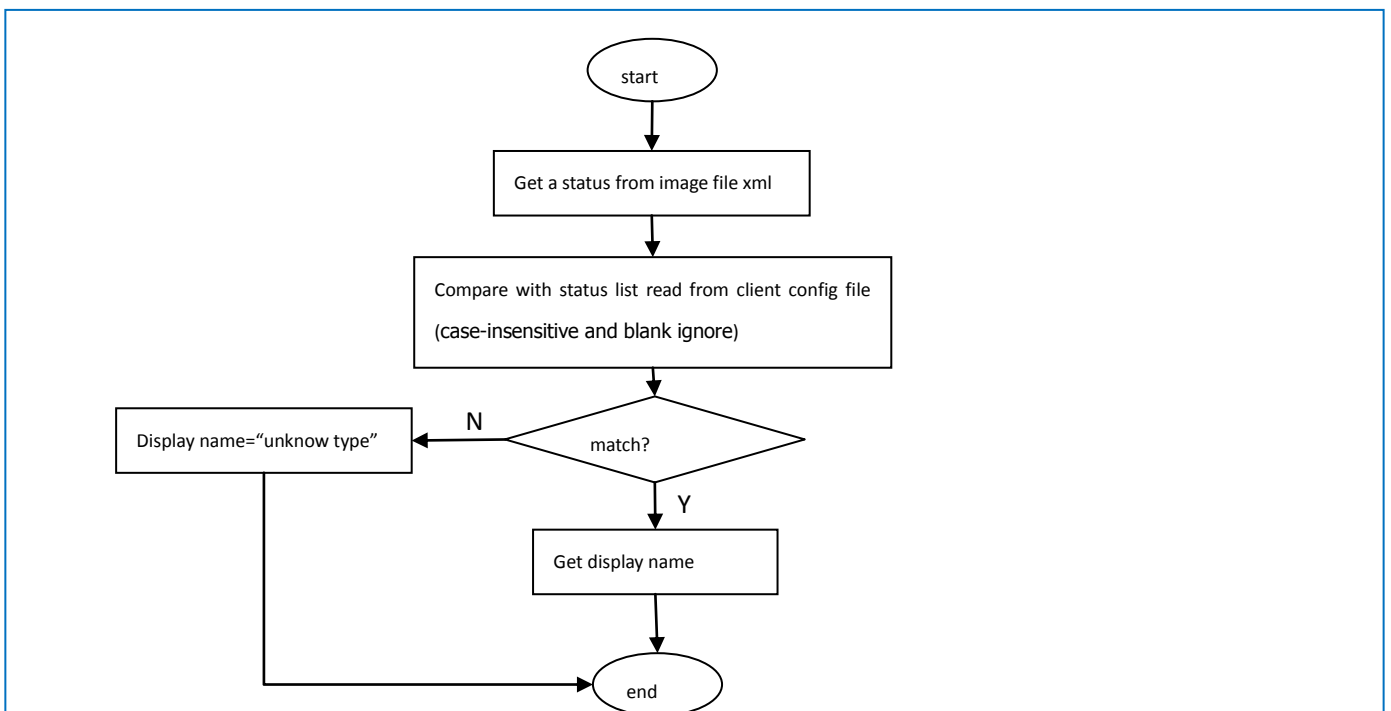
1) Approval status loading for DV client

```
                              ┌─────────┐
                              │  start  │
                              └────┬────┘
                                   │
                                   ▼
                    ┌──────────────────────────────────┐
                    │ Get status list from client config file │
                    └──────────────┬───────────────────┘
                                   │
                                   ▼
                            ◇───────────────◇          Y
                           <   Loop is over?  >────────────┐
                            ◇───────────────◇             │
                                   │ N                     │
                                   ▼                       │
                    ┌──────────────────────────┐          │
                    │   Loop to get each status │          │
                    └──────────────┬───────────┘          │
                                   ▼                       │
                    ┌──────────────────────────────────┐  │
                    │ Compare  with  the  other  statues │  │
                    │ (case-insensitive and blank ignore)│  │
                    └──────────────┬───────────────────┘  │
                                   ▼                       │
              ┌──────────────┐  Y  ◇────────◇             │
        ◄─────│Discard this  │◄────<  match? >            │
              │   status     │     ◇────────◇             │
              └──────────────┘         │ N                │
                                       ▼                  │
                            ┌──────────────────┐          │
        ┌───────────────────│  Accept this status│        │
        │                   └──────────────────┘          │
        │                                                 │
        │                       ┌─────────┐               │
        └──────────────────────│   end   │◄──────────────┘
                                └─────────┘
```
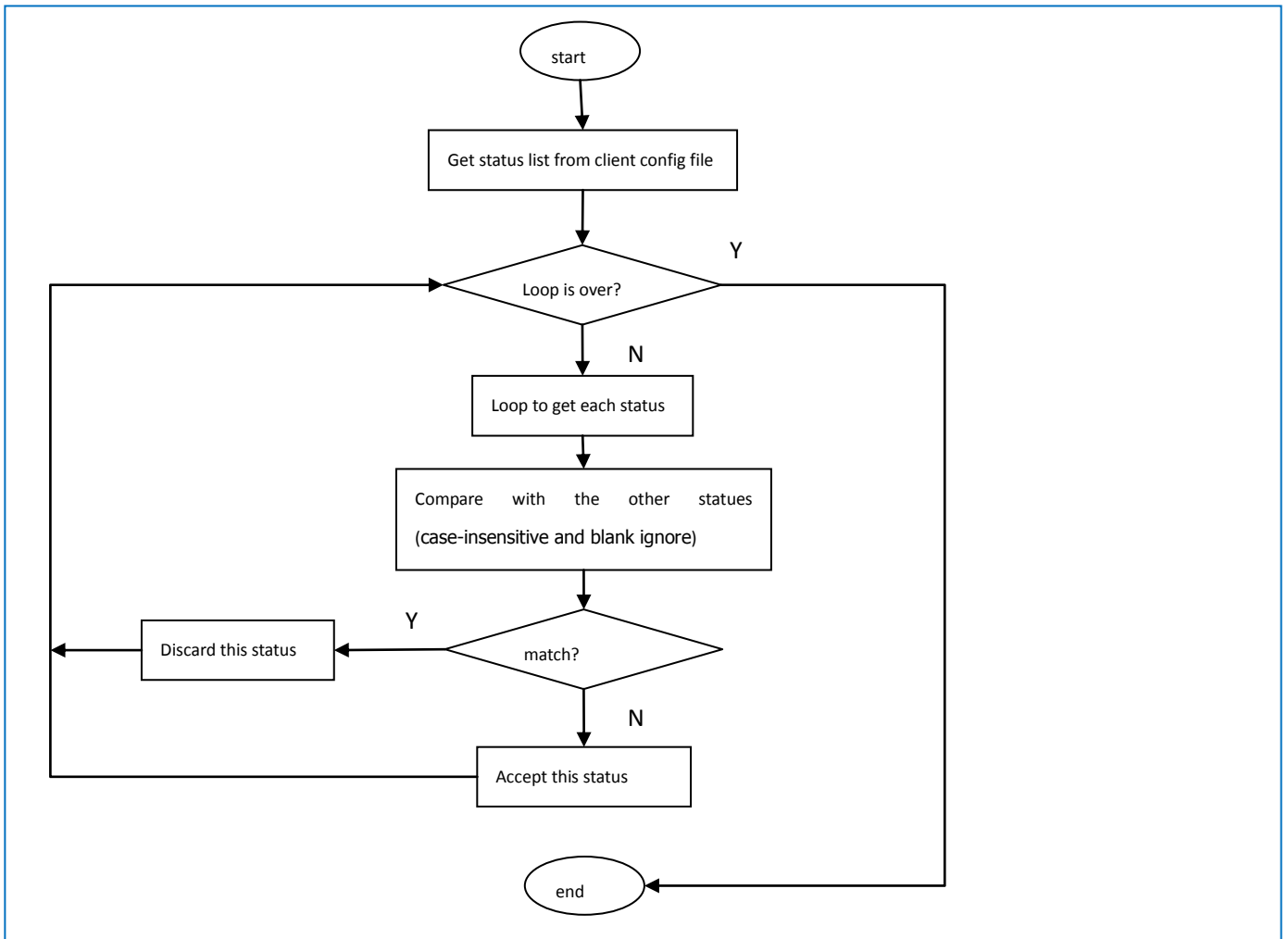
2) Approval status displaying in DV client

```
                              ┌─────────┐
                              │  start  │
                              └────┬────┘
                                   ▼
                    ┌──────────────────────────────┐
                    │ Get a status from image file xml │
                    └──────────────┬───────────────┘
                                   ▼
                    ┌────────────────────────────────────────┐
                    │ Compare  with status list read from client config file │
                    │ (case-insensitive and blank ignore)     │
                    └──────────────┬─────────────────────────┘
                                   ▼
        ┌──────────────────────┐  N  ◇────────◇
        │Display name="unknow type"│◄──<  match? >
        └──────────┬───────────┘     ◇────────◇
                   │                      │ Y
                   │                      ▼
                   │           ┌──────────────────┐
                   │           │ Get display name │
                   │           └─────────┬────────┘
                   │                     ▼
                   │              ┌─────────┐
                   └─────────────►│   end   │
                                  └─────────┘
```

Configuration in Server side & client side

1) DaVinci server side approval configuration file, its name is application-mapping.xml.

```
<!—sessionkey is for application match, each application has unique sessionkey-->
<application sessionkey="smartflow">
    <!-- sessionkey is use to identify this set of approval statuses type should be applied to which site -->
    <statuses>
        <status>
            <systemid>Approved</systemid>
            <!--approval status type,    it should be unique, but if had duplicate, DV will only accept the first one. -->
            <description></description>
            <!--Remark for this approval status type.    -->
        </status>
        <status>
            <systemid>Rejected</systemid>
            <description></description>
        </status>
        <status>
            <systemid>Approved with change</systemid>
            <description></description>
        </status>
    </statuses>
</application>
```

2) DaVinci client side   approval configuration file, its name is configuration.xml.

```
<!--
    Name is for display in dv client
    Value will be passed to the third part system
    Systemid is for define to map the status type in server side, e.g. a systemid which its value is 'refinement required'
    exist in client side configuration file, but not exist in server side configuration file, then the 'refinement required' option
    was selected and submit to server, server will return error msg to client. A systemid which its value is 'approval with
    changes' is exist in server side configuration file but not exist in client side configuration file, when DaVinci client open a
    file with this approval status, DaVinci client will shown it as 'Unknown type'.

-->
    <status name="Approved" value="app" systemid="Approved">
            <!-- Third-party system call back configuration -->
            <callback>
                <URL>modifyDocumentAction.mdsdavinci</URL>
            <!-- URL tag    contain the URL that DaVinci client will called when selected this approval status to call back-->

                <parameter_list_get>
                    <parameter>taskId</parameter>
```

```xml
                </parameter_list_get>
            <!-- parameter tag   contain a set of parameter(s) that DaVinci client will passed to the callback URL when
selected this approval status -->
                </callback>
            </status>
```