P1305 BankID 2.0 Dialog transitions

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1 INTRODUCTION

The following chapters describe the flow between the views in the BankID 2.0 client for each of the 4 possible BankID Actions: AUTHENTICATION, SIGNING, NETPAY and CHANGE PASSWORD. The different actions can in turn use several different HA services.

Ha Service

General term for the various HA services that can be used. These HA services are divided into the following groups:

- HA1 (Traditional one-time-password code-unit)
- HA2 (HA2 service)
- Challenge HA (Scratch card)
- BIM HA (BankID på Mobil)

Ha List

Used as a common name for dialog showing a list of the users available HA services where the user must select the HA service to be used. Applies where the user has at least one unused HA service, or when the user wants to switch to another available HA service.

There might be screens that do not have a UDD reference by its own. These are variants of other UDDs. An example of this is information screen for BIM HA that waits for the user to press next to continue process of authentication.

Information and description of these is to be found in Chapter 6.

2 AUTHENTICATION

In order to improve readability, the authentication flow has been split into two separate diagrams, focusing on two different use cases within the authentication flow. These use cases are

- Standard authentication flow (2.1)
- Authentication including a user-initiated or forced password change (2.3)

In addition, this chapter describes the flow if the merchant application has initiated the BankID client using UserProfile.

2.1 Standard authentication flow

The following flow chart documents the transitions involved in the authentication flow, and ignores use cases involving cancellation of the BankID transaction and password change.



I=I bankID

- 1. At startup, the loading page dialog is presented.
- 2. D01 is the dialog where the user enters the User-ID, unless the merchant application has implemented UserProfile.
- 3. The user has entered no User-ID or one that is too short (less than 11 digits), and the E22 dialog is displayed.
- 4. The last used HA service will be used, unless in **one** of the following situations:
 - a. If the user has a new HA service that is never used, a HA List will be presented.
 - b. If user has both a PersonBankID and an EmployeeBankID the user must select which BankID Type and a related HA service to be used in order to continue.
 - c. If HA2 is selected, the dialog D07_ha will be displayed until the user interaction with the mobile device is finished.
 - d. If BIM HA is selected and the user only has one BIM HA service, pressing the call-toaction button will cause the dialog D07 to be displayed until the user interaction with the mobile device is finished. The user can go back to choose another HA service (7).
 - e. If BIM HA is selected and the user has multiple BIM HA services, the user will be prompted to enter his mobile phone number before the D07 dialog is displayed, until the user interaction with the mobile device is finished.
- 5. If the end user has more than one HA service available and at least one of those have not been used, a HA List is provided to the user to choose from. The list is sorted:
 - a. New HA service(s) are first in list
 - b. HA service in user profile is second in list
 - c. The rest of the HA service(s) are ordered by last used
- 6. The user has selected a HA service in the list.
 - a. If HA2 is selected, the dialog D07_ha will be displayed until the user interaction with the mobile device is finished.
 - b. If BIM HA is selected and the user only has one BIM HA service, pressing the call-toaction button will cause the dialog D07 to be displayed until the user interaction with the mobile device is finished. The user can go back to choose another HA service.
 - c. If BIM HA is selected and the user has multiple BIM HA services, the user will be prompted to enter his mobile phone number before the D07 dialog is displayed, until the user interaction with the mobile device is finished.
- 7. The user can go back to choose another HA service in the list from D03_b, D03_cr_e, D03_m, D03_n and D07_ha.
- 8. Either the HA code or the User-ID is incorrect, and the user is returned to the initial step in the flow and displayed the E19_1 "Incorrect data entered" dialog.
- 9. Depending on the HA service selected by the user and the type of BankID in use, one of the listed dialogs will request the user to input his BankID password.
- 10. If BIM HA is selected and the user only has one BIM HA service, pressing the call-to-action button will cause the dialog D07 to be displayed until the user interaction with the mobile device is finished. If the user has multiple BIM HA services, the user will be prompted to enter his mobile phone number before the D07 dialog is displayed.
- 11. As the user has completed the interaction with the mobile device, one of the listed dialogs will request the user to input his BankID password.
- 12. The user entered the wrong password, but the HA code and the User-ID were correct.
- 13. The user entered the UserID, HA code and password correctly, and is authenticated.
 - a. If a callback method was provided in the initialisation of the BankID client, this method will be called and the client will terminate.
 - b. If no callback method was provided, but a NextURL was provided by the client, the document containing the BankID 2.0 client will be redirected to the NextURL and the client will terminate.
 - c. If no callback method and no NextURL were provided, the client will terminate silently.

Cancelling Authentication in the different states are described in chapter 2.4

2.2 Authentication using User Profile

If the merchant application initiates the BankID 2.0 using UserProfile (entry of User-ID and/or HA service in the merchant application so that re-entry of these inputs is unnecessary), the user will enter the application in one of the HA service dialogs.

If the user provides an incorrect HA code after initiating the BankID transaction with UserProfile, the standard authentication flow is resumed, the user returned to the User-ID, and displayed the E19_1 "Incorrect data entered" dialog.



2.3 Authentication with user-initiated or forced password change

The flow chart documents the transitions involved in the authentication flow if the user chooses to initiate a password change from within the BankID 2.0 client's menu, or if a flag has been set forcing the user to change his/her password.

This flow chart ignores use cases where the authentication flow is interrupted by incorrect input by the end user, causing the client to transition to previous dialogs in the authentication flow.

- 1. At startup, the loading page dialog is presented.
- 2. D01 is the dialog where the user enters the User-ID, unless the merchant application has implemented UserProfile (see chpt. 2.2)
- 3. The last used HA service will be used, unless in one of the following situations:
 - a. If the user has a new HA service that is never used, a HA List will be presented.
 - b. If user has both a PersonBankID and an EmployeeBankID the user must select which BankID Type and a related HA service to be used in order to continue.
 - c. If HA2 is selected, the dialog D07_ha will be displayed until the user interaction with the mobile device is finished.
 - d. If BIM HA is selected and the user only has one BIM HA service, pressing the call-toaction button will cause the dialog D07 to be displayed until the user interaction with the mobile device is finished. The user can go back to choose another HA service (6).
 - e. If BIM HA is selected and the user has multiple BIM HA services, the user will be prompted to enter his mobile phone number before the D07 dialog is displayed, until the user interaction with the mobile device is finished.
- 4. If the end user has more than one HA service available and at least one of those have not been used, a HA List is provided to the user to choose from. The list is sorted:
 - a. New HA service(s) are first in list
 - b. HA service in user profile is second in list
 - c. The rest of the HA service(s) are ordered by last used
- 5. The user has selected a HA service in the list.
 - a. If HA2 is selected, the dialog D07_ha will be displayed until the user interaction with the mobile device is finished.
 - b. If BIM HA is selected and the user only has one BIM HA service, pressing the call-toaction button will cause the dialog D07 to be displayed until the user interaction with the mobile device is finished. The user can go back to choose another HA service.
 - c. If BIM HA is selected and the user has multiple BIM HA services, the user will be prompted to enter his mobile phone number before the D07 dialog is displayed, until the user interaction with the mobile device is finished.
- 6. The user can go back to choose another HA service in the list from D03_b, D03_cr_e, D03_m, D03_n and D07_ha.
- 7. Depending on the HA service selected by the user and the type of BankID in use, one of the listed dialogs will request the user to input his BankID password.
- 8. If BIM HA is selected and the user only has one BIM HA service, pressing the call-to-action button will cause the dialog D07 to be displayed until the user interaction with the mobile device is finished. If the user has multiple BIM HA services, the user will be prompted to enter his mobile phone number before the D07 dialog is displayed.
- 9. As the user has completed the interaction with the mobile device, one of the listed dialogs will request the user to input his BankID password.
- 10. The user has initiated a password change by selecting "Change password" in the BankID 2.0 client's menu at any previous step in the authentication flow.
- 11. A flag has been set by the issuing bank for the user to renew his/her password, resulting that the user is displayed a dialog informing the user of the need to change the BankID password.
- 12. The user has pressed the call-to-action button in the dialog informing the user of a need to change password.
- 13. The users new password does not match the criteria, or was not confirmed correctly.
- 14. The IO3 dialog is displayed, confirming to the user that the password has been changed.

- 15. The user ticked the "Keep existing password" checkbox in the "Change password" dialog. (Only available if the password change is user-initiated). The user is authenticated.
 - a. If a callback method was provided in the initialisation of the BankID client, this method will be called and the client will terminate.
 - b. If no callback method was provided, but a NextURL was provided by the client, the document containing the BankID 2.0 client will be redirected to the NextURL and the client will terminate.
 - c. If no callback method and no NextURL were provided, the client will terminate silently.
- 16. The user is authenticated after a successful password change.
 - a. If a callback method was provided in the initialisation of the BankID client, this method will be called and the client will terminate.
 - b. If no callback method was provided, but a NextURL was provided by the client, the document containing the BankID 2.0 client will be redirected to the NextURL and the client will terminate.
 - c. If no callback method and no NextURL were provided, the client will terminate silently.

2.4 Cancelling authentication

There is no flow chart for cancelling the authentication transaction, but all dialogs have a "Cancel BankID" menu item. If the end user selects this menu item from anywhere inside the authentication flow, a transition is made to a confirmation dialog (CO3), asking the user to confirm the cancellation. If the user chooses to confirm, the transaction is aborted.

- 1. If a callback method was provided in the initialisation of the BankID client, this method will be called and the client will terminate.
- 2. If no callback method was provided, but a NextURL was provided by the client, the document containing the BankID 2.0 client will be redirected to the NextURL and the client will terminate.
- 3. If no callback method and no NextURL were provided, the client will terminate silently.

SIGNING



I=I bankID

- 1. At startup the loading page dialog is presented.
- 2. Which dialog to be presented next depends on the kind of document to be signed, the presence of a broadcast message and if the merchant has used the possibility to set a flag (showUnderstanding), forcing the user to tick the "Read and understood" checkbox before being allowed to continue with the signing process.
 - a. If this flag is set, one of the following dialogs will be shown:
 - i. S_T
 - ii. S_XML
 - S_P (If the document to be signed is a PDF document, the user has to open and view the PDF file in the standard application for reading pdf files before the "Read and understood" checkbox is enabled)
 - b. If the showUnderstanding flag is NOT set, one of the following dialogs will be shown:
 - i. S_T_No_Show_Understanding
 - ii. S_XML_No_Show_Understanding
 - iii. S_P_No_Show_Understanding
- 3. The user can open the menu and choose "Cancel signing". The CO4 dialog is displayed, asking the user to confirm the cancellation of the signing process. Confirming the cancellation terminates the client. Selecting the "Close" button in CO4 returns the user to the previous dialog.
- 4. When the user has viewed the document and clicks next, he/she will sign the document by: entering User-ID, and verifying with HA service and Password.
- 5. The user can open the menu and choose "Cancel signing". The C04 dialog is displayed, asking the user to confirm the cancellation of the signing process. Confirming the cancellation terminates the client. Selecting the "Close" button in C04 returns the user to the previous dialog.
- 6. The user has entered a User-ID that is too short (less than 11 digits), and the error dialog is displayed.
- 7. The user entered a User-ID and pressed the call-to-action button. The last used HA service will be used, unless in one of the following situations:
 - a. If the user has a new HA service that is never used, a HA List will be presented.
 - b. If user has both a PersonBankID and an EmployeeBankID the user must select which BankID Type and a related HA Service to be used in order to continue.
 - c. If HA2 is selected, the dialog S07_ha will be displayed until the user interaction with the mobile device is finished.
 - d. If BIM HA is selected and the user only has one BIM HA service, pressing the call-toaction button will cause the dialog S07 to be displayed until the user interaction with the mobile device is finished. The user can go back to choose another HA service (6).
 - e. If BIM HA is selected and the user has multiple BIM HA services, the user will be prompted to enter his mobile phone number before the S07 dialog is displayed, until the user interaction with the mobile device is finished.
- 8. If the end user has more than one HA service available and at least one of those have not been used, a HA list is provided to the user to choose from. The list is sorted:
 - a. New HA service(s) are first in list
 - b. HA service in user profile is second in list
 - c. The rest of the HA service(s) are ordered by last used
- 9. The user has selected a HA service in the list.
 - a. If HA2 is selected, the dialog S07_ha will be displayed until the user interaction with the mobile device is finished.
 - b. If BIM HA is selected and the user only has one BIM HA service, pressing the call-toaction button will cause the dialog S07 to be displayed until the user interaction with the mobile device is finished. The user can go back to choose another HA service.

- c. If BIM HA is selected and the user has multiple BIM HA services, the user will be prompted to enter his mobile phone number before the S07 dialog is displayed, until the user interaction with the mobile device is finished.
- 10. The user can go back to choose another HA service in the list from S03_b, S03_cr_e, S03_m, S03_n and S07_ha.
- 11. If BIM HA is selected and the user only has one BIM HA service, pressing the call-to-action button will cause the dialog S07 to be displayed until the user interaction with the mobile device is finished. If the user has multiple BIM HA services, the user will be prompted to enter his mobile phone number before the S07 dialog is displayed.
- 12. As the user has completed the interaction with the mobile device, one of the listed dialogs will request the user to input his BankID password.
- 13. The user can open the menu and choose "Cancel signing". The CO4 dialog is displayed, asking the user to confirm the cancellation of the signing process. Confirming the cancellation terminates the client. Selecting the "Close" button in CO4 returns the user to the previous dialog.
- 14. Either the HA code or the User-ID is incorrect, and the user is returned to the initial step in the flow and displayed the E19_1 "Incorrect data entered" dialog.
- 15. The user has successfully provided a One-Time-Password. Depending on the HA service selected by the user and the type of BankID in use, one of the listed dialogs will request the user to input his BankID password.
- 16. The user can open the menu and choose "Cancel signing". The C04 dialog is displayed, asking the user to confirm the cancellation of the signing process. Confirming the cancellation terminates the client. Selecting the "Close" button in C04 returns the user to the previous dialog.
- 17. The user entered an incorrect password.
- 18. Signing finished
 - a. If a callback method was provided in the initialisation of the BankID client, this method will be called and the client will terminate.
 - b. If no callback method was provided, but a NextURL was provided by the client, the document containing the BankID 2.0 client will be redirected to the NextURL and the client will terminate.
 - c. If no callback method and no NextURL were provided, the client will terminate silently.
- 19. Signing complete. The merchant has configured the client to provide the end user with a confirmation dialog (I06).
- 20. Signing finished
 - a. If a callback method was provided in the initialisation of the BankID client, this method will be called and the client will terminate.
 - b. If no callback method was provided, but a NextURL was provided by the client, the document containing the BankID 2.0 client will be redirected to the NextURL and the client will terminate.
 - c. If no callback method and no NextURL were provided, the client will terminate silently.
- 21. The user cancelled the Signing.
 - a. If a callback method was provided in the initialisation of the BankID client, this method will be called and the client will terminate.
 - b. If no callback method was provided, but a NextURL was provided by the client, the document containing the BankID 2.0 client will be redirected to the NextURL and the client will terminate.
 - c. If no callback method and no NextURL were provided, the client will terminate silently.

As described in item no. 6 the user can cancel the process at any point, except in S_confimation. When S_confirmation is displayed the signings process is finished.

3.1 Signing User Profile

If the merchant application initiates the BankID 2.0 using UserProfile (entry of User-ID and/or HA service in the merchant application, so that re-entry of these inputs is unnecessary), the transition from Document is directly to one of the HA service dialogs, skipping User-ID input.

NETPAY



- 1. At startup the loading page dialog is presented.
- 2. NO1 is the second dialog in the payment flow, and is where the user enters the User-ID.
- 3. The user opens the menu and chooses "Cancel payment". The Cn01 dialog is displayed, asking the user to confirm the cancellation of the payment process. Confirming the cancellation terminates the client.
- 4. Selecting the "Back" button in Cn01 returns the user to the previous dialog.
- 5. The user entered a User-ID with less than 11 digits, and the E22_n dialog is displayed.
- 6. The user entered a User-ID and pressed the call-to-action button. The last used HA service will be used, unless in **one** of the following situations:
 - a. If the user has a new HA service that is never used, a HA List will be presented.
 - b. If user has both a PersonBankID and an EmployeeBankID the user must select which BankID Type and a related HA service to be used in order to continue.
 - c. If HA2 is selected, the dialog N07_ha will be displayed until the user interaction with the mobile device is finished.
 - d. If BIM HA is selected and the user only has one BIM HA service, pressing the call-toaction button will cause the dialog N07 to be displayed until the user interaction with the mobile device is finished. The user can go back to choose another HA service (9).
 - e. If BIM HA is selected and the user has multiple BIM HA services, the user will be prompted to enter his mobile phone number before the N07 dialog is displayed, until the user interaction with the mobile device is finished.
- 7. If the end user has more than one HA service available and at least one of those have not been used, a HA List is provided to the user to choose from. The list is sorted:
 - a. New HA service(s) are first in list
 - b. HA service in user profile is second in list
 - c. The rest of the HA service(s) are ordered by last used
- 8. The user has selected a HA service in the list.
 - a. If HA2 is selected, the dialog N07_ha will be displayed until the user interaction with the mobile device is finished.
 - b. If BIM HA is selected and the user only has one BIM HA service, pressing the call-toaction button will cause the dialog N07 to be displayed until the user interaction with the mobile device is finished. The user can go back to choose another HA service.
 - c. If BIM HA is selected and the user has multiple BIM HA services, the user will be prompted to enter his mobile phone number before the N07 dialog is displayed, until the user interaction with the mobile device is finished.
- 9. The user can go back to choose another HA service in the list from N03_b, N03_cr_e, N03_m, N03_n and N07_ha.
- 10. The user opens the menu and chooses "Cancel payment". The Cn01 dialog is displayed, asking the user to confirm the cancellation of the payment process. Confirming the cancellation terminates the client.
- 11. Selecting the "Back" button in Cn01 returns the user to the previous dialog.
- 12. If BIM HA is selected and the user only has one BIM HA service, pressing the call-to-action button will cause the dialog N07 to be displayed until the user interaction with the mobile device is finished. If the user has multiple BIM HA services, the user will be prompted to enter his mobile phone number before the N07 dialog is displayed.
- 13. As the user has completed the interaction with the mobile device, one of the listed dialogs will request the user to input his BankID password.
- 14. Either the HA code or the User-ID is incorrect, and the E19_3 "Incorrect data entered" dialog is displayed.
- 15. The payment text is displayed to the user. Clicking on the call-to-action button takes the user to the password input dialog.

- 16. The user opens the menu and chooses "Cancel payment". The Cn01 dialog is displayed, asking the user to confirm the cancellation of the payment process. Confirming the cancellation terminates the client.
- 17. Selecting the "Back" button in Cn01 returns the user to the previous dialog.
- 18. The user is requested to enter password in one of the "Enter password" dialogs listed.
- 19. If the user opens the menu and chooses "Cancel payment", the Cn01 dialog is displayed.
- 20. Selecting the "Back" button in Cn01 returns the user to the previous dialog.
- 21. The user has entered an incorrect password, but both the HA code and the User-ID is correct.
- 22. The user entered the User-ID, HA code and the password correctly, and the payment process is completed successfully.
 - a. If a callback method was provided in the initialisation of the BankID client, this method will be called and the client will terminate.
 - b. If no callback method was provided, but a NextURL was provided by the client, the document containing the BankID 2.0 client will be redirected to the NextURL and the client will terminate.
 - c. If no callback method and no NextURL were provided, the client will terminate silently.
- 23. The user cancelled the payment.
 - a. If a callback method was provided in the initialisation of the BankID client, this method will be called and the client will terminate.
 - b. If no callback method was provided, but a NextURL was provided by the client, the document containing the BankID 2.0 client will be redirected to the NextURL and the client will terminate.
 - c. If no callback method and no NextURL were provided, the client will terminate silently.

4.1 NetPay User Profile

If the merchant application initiates the BankID 2.0 using UserProfile (entry of User-ID and/or HA service in the merchant application so that re-entry of these inputs is unnecessary), step 1-4 is rendered obsolete and the user will enter the application in one of the HA service dialogs.

I=I bankID

CHANGE PASSWORD



- 1. At startup the loading page dialog is presented.
- 2. Next, a message is displayed saying that the user needs to complete a BankID authentication before being able to change the BankID password. Pressing the call-to-action button starts the authentication.
- 3. D01 is the dialog where the user enters the User-ID.
- 4. The user opens the menu and chooses "Cancel authentication". The CO3 dialog is displayed, asking the user to confirm the cancellation of the identification process. Confirming the cancellation terminates the client.
- 5. Selecting the "Back" button in C03 returns the user to the previous dialog.
- 6. The user has entered a User-ID that is too short (less than 11 digits), and the E22 dialog is displayed.
- 7. The user entered a User-ID and pressed the call-to-action button. The last used HA service will be used, unless in one of the following situations:
 - a. If the user has a new HA service that is never used, a HA List will be presented.
 - b. If user has both a PersonBankID and an EmployeeBankID the user must select which BankID Type and a related HA service to be used in order to continue.
 - c. If HA2 is selected, the dialog D07_ha will be displayed until the user interaction with the mobile device is finished.
 - d. If BIM HA is selected and the user only has one BIM HA service, pressing the call-toaction button will cause the dialog D07 to be displayed until the user interaction with the mobile device is finished. The user can go back to choose another HA service (10).
 - e. If BIM HA is selected and the user has multiple BIM HA services, the user will be prompted to enter his mobile phone number before the D07 dialog is displayed, until the user interaction with the mobile device is finished.
- 8. If the end user has more than one HA service available and at least one of those have not been used, a HA List is provided to the user to choose from. The list is sorted:
 - a. New HA service(s) are first in list
 - b. HA service in user profile is second in list
 - c. The rest of the HA service(s) are ordered by last used
- 9. The user has selected a HA service in the list.
 - a. If HA2 is selected, the dialog D07_ha will be displayed until the user interaction with the mobile device is finished.
 - b. If BIM HA is selected and the user only has one BIM HA service, pressing the call-toaction button will cause the dialog D07 to be displayed until the user interaction with the mobile device is finished. The user can go back to choose another HA Service.
 - c. If BIM HA is selected and the user has multiple BIM HA services, the user will be prompted to enter his mobile phone number before the D07 dialog is displayed, until the user interaction with the mobile device is finished.
- 10. The user can go back to choose another HA service in the list from D03_b, D03_cr_e, D03_m, D03_n, D07_ha.
- 11. The user selected "Cancel authentication" from the menu, and is displayed the CO3 dialog.
- 12. The user selected "Back" in the CO3 dialog, and is returned to the previous dialog.
- 13. If BIM HA is selected and the user only has one BIM HA service, pressing the call-to-action button will cause the dialog D07 to be displayed until the user interaction with the mobile device is finished. If the user has multiple BIM HA services, the user will be prompted to enter his mobile phone number before the D07 dialog is displayed.
- 14. The user interaction with the mobile device is finished.
- 15. Depending on the HA service selected by the user and the type of BankID in use, one of the listed dialogs will request the user to input his BankID password.
- 16. Either the HA code or the User-ID is incorrect, and the user is returned to the initial step in the flow and displayed the E19_1 "Incorrect data entered" dialog.
- 17. The user selected "Cancel authentication" from the menu, and is displayed the C03 dialog.
- 18. The user selected "Back" in the CO3 dialog, and is returned to the previous step in the dialog.

- 19. The user entered an incorrect password, but the User-ID and HA code were correct.
- 20. Renew. The "informUser" flag is set.
- 21. The user pressed the Call-to-action button in i10.
- 22. The user has entered User-ID, HA service and password correctly, and is taken to the D08 dialog.
- 23. The users new password does not match the criteria, was not confirmed correctly, or is identical to the existing password.
- 24. The user selected "Cancel authentication" from the menu, and is displayed the CO3 dialog.
- 25. The user selected "Back" in the CO3 dialog, and is returned to the previous step in the dialog.
- 26. The IO3 dialog is displayed, confirming to the user that the password has been changed.
- 27. The user is authenticated after a successful password change, and the client is terminated. Redirect to NextURL.
- 28. The user cancelled the operation, and the client is terminated. Redirect to NextURL.

6 GENERAL DIALOGS

There are a number of dialogs that are part of the BankID 2.0 client, but are not part of the main user flows described above. These are described in the following section.

6.1 Error dialogs

After submitting data or initiation of a call to FOI/Merchant, if an error does occur, the user will be presented an error message stating the reason of the session termination. Error messages that are not described in the above flows are:

6.1.1 Error E04_1

A non-descriptive error informing the user that something has gone wrong, and to try again after restarting the browser. Contains a specific BID error code.

6.1.2 E04_3

A non-descriptive error informing the user that something has gone wrong, and to try again after deleting temporary files. Contains a specific BID error code.

6.1.3 E04_4

A non-descriptive error informing the user that something has gone wrong, and to try again after updating the browser. Contains a specific BID error code.

6.1.4 E04_5

A non-descriptive error informing the user that something has gone wrong, asking the user to contact the bank that has issued the BankID, referring to a specific BID error code.

6.1.5 E04_6

A non-descriptive error informing the user that something has gone wrong, and to try again after updating the browser. Contains a specific BID error code.

6.1.6 E04_7

A non-descriptive error informing the user that something has gone wrong, and to try again in 10 minutes. Contains a specific BID error code.

6.1.7 E17

Error message informing the user that the BankID has been blocked due to too many incorrect passwords entered. Informs the user to contact the issuer of the BankID.

6.1.8 E20

Error message informing the user that the HA service has been blocked due to too many incorrect HA codes being entered. Informs the user to contact the issuer of the BankID.

6.1.9 E21

Error message informing the user that the merchant is not identified, and to contact the bank.

6.1.10 E24

Non-descriptive error saying that something has gone wrong, asking the user to try again.

6.1.11 E26

Message from the HA service to the end user.

6.1.12 E30

Error message informing the user that the service requires PersonalBankID. Assumes that the user has attempted to use an EmployeeBankID with a merchant only supporting PersonalBankIDs.

6.1.13 E31

Error message informing the user that the service requires EmployeeBankID. Assumes that the user has attempted to use a PersonalBankID with a merchant only supporting EmployeeBankIDs.

6.1.14 E32

Error informing the user that an error has occured during initialisation of the client. Asking the user to close all browsers and try again. If the error continues to occur, to contact the issuing bank.

6.1.15 E34

Error message informing the user that the client is unable to redirect the user to the location specified by the merchant application.

6.2 Informational dialogs

In addition to the above described flows, there are a number of informational pages available in the BankID 2.0 client.

6.2.1 Cert View Merchant

Page displaying the merchant's PKI certificate. Should be made available to the user from the initial BankID dialog.

6.2.2 Cert View Personal

Page displaying the end user's personal BankID certificate. Should be made available to the user after successfully providing a User-ID and HA code.

6.2.3 Cert View Employee

Page displaying the end user's Employee BankID certificate. Should be made available to the user after successfully providing a User-ID and HA code.

6.2.4 Privacy Policy

Page providing the end user information about BankID's privacy policies.

6.2.5 Broadcast popover

Page displaying a message from BankID Norge to the end user in the initial BankID dialog. This message may be suppressed by the merchant application.

6.2.6 Broadcast details

Page displaying a the detailed message from BankID Norge if the user clicks on the Broadcast popover in the initial BankID dialog. This message may be suppressed by the merchant application.