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| SmartSDK Application Evaluation Criteria Specifications  Version:1.03 |
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# Introduction

RICOH SmartSDK (or simply SmartSDK) is a set of WebAPIs on Ricoh MFPs and LPs to control the devices from the application software on the SmartOperation Panel and software on remote application servers.

This document describes the basic evaluation items and procedure, as a reference, to test the RICOH SmartSDK application software development for the SmartSDK application software developers.

- SmartSDK Application Evaluation Item

Table of basic evaluation items for the SmartSDK application software.

Refer to this table to create the test items suitable for each SmartSDK application spec.

- Examples of SmartSDK Application Evaluation Procedures

Describes example test procedures for the SmartSDK test items.

Refer to this example procedures to prepare the SmartSDK application software test specification.

## Target readers

This document delivers information for developers of service using SmartSDK application. Therefore, service designers, programmers, and people in charge of service introduction must read this guide.

# Chapter 0 Declaration of SmartSDK Application to be Evaluated

To evaluate the basic features that a SmartSDK application must have, select the application type。

|  |  |  |
| --- | --- | --- |
| Application types | □ MultiLink-Panel application | □ Remote application |
|

# Chapter 1 SmartSDK Application Evaluation Items

On the SmartOperation Panel, the language switching mechanism follows the OS specification. To support the language switching, the SmartSDK application must follow the OS specification and test accordingly.

As the application software on the SmartOperation Panel cannot operate while the panel is in the energy save mode, there is a not test item to test the application while the panel is in the energy save mode.

The test items applicable to remote applications are marked with "\*" on the category numbers.

## 1.1. Common Evaluation Items (requisite items)

Evaluation items for basic features that a SmartSDK application must have are shown.

All SmartSDK applications must pass the evaluations equivalent to these.

|  |  |  |  |
| --- | --- | --- | --- |
| Category  Number | Test type | Evaluation item | Confirmed Result |
|
| 1-1 | Common feature  (Install) | Confirm the SmartSDK application can be installed. |  |
| 1-2 | Common feature  (Power Mode) | Confirm the change of the power mode (Auto Off) does not have side effects. |  |
| 1-3 | Common feature  (Power Mode) | Confirm the change of the power mode (power off with the [Power] key) does not have side effects. |  |
| 1-4 | Common feature  (Operation Panel) | Confirm that the application switching does not have side effects. |  |
| 1-5 | Common feature  (Device state transition) | Confirm the lock and release of the transition to the offline mode functions correctly. |  |
| 1-6 | Common feature  (Device state transition) | Confirm the lock and release of the transition to the Operation Panel Off mode functions correctly. |  |
| 1-7 | Common feature  (Device state transition) | Confirm the lock and release of the transition to the Power Off mode functions correctly. |  |
| 1-8 | Common feature  (Device state transition) | Confirm that the system auto reset does not have side effects. |  |
| 1-9 | Common feature  (Device state transition) | Confirm that login/logout can be executed. |  |
| 1-10 | Common feature  (Device state transition) | Confirm that transition to energy saving mode following the logout does not occur while a job is being executed. |  |

## 1.2. Print feature related evaluation items (selection items)

Evaluation items that SmartSDK application should meet if it has Print feature are shown.

|  |  |  |  |
| --- | --- | --- | --- |
| Category  Number | Test type | Evaluation item | Confirmed Result |
|
| \*2-1 | Print feature | Confirm that paper jam is detected and handled appropriately. |  |
| 2-2 | Print feature | Confirm that paper jam is detected and handled appropriately when SmartSDK application is not the screen owner |  |
| \*2-3 | Print feature | Confirm that paper shortage is detected and handled appropriately. |  |
| 2-4 | Print feature | Confirm that paper empty is detected and handled appropriately when SmartSDK application is not the screen owner. |  |
| \*2-5 | Print feature | Confirm that toner shortage is detected and handled appropriately. |  |
| 2-6 | Print feature | Confirm that toner empty is detected and handled appropriately when SmartSDK application is not the screen owner. |  |
| 2-7 | Print feature | Confirm that MFD/printer door open is detected and handled appropriately. |  |
| \*2-8 | Print feature | Confirm that feeder tray not set is detected and handled appropriately. |  |
| \*2-9 | Print feature | Confirm that unsupported print service necessary can be detected and handled appropriately. |  |

## 1.3. Scan feature related evaluation items (selection items)

Evaluation items that SmartSDK application should meet if it has Scan feature are shown.

|  |  |  |  |
| --- | --- | --- | --- |
| Category  Number | Test type | Evaluation item | Confirmed Result |
|
| \*3-1 | Scan feature | Confirm that scanning is proper in platen mode. |  |
| \*3-2 | Scan feature | Confirm that scanning is proper in ADF mode. |  |
| \*3-3 | Scan feature | Confirm that paper jam at original scan is detected and handled appropriately. |  |
| 3-4 | Scan feature | Confirm that DF door open is detected and handled appropriately |  |
| \*3-5 | Scan feature | Confirm that no original is detected and handled appropriately. |  |

## 1.4. Fax Feature Related Evaluation Items (selection items)

Evaluation items that SmartSDK application should meet if it has Fax feature are shown.

|  |  |  |  |
| --- | --- | --- | --- |
| Category  Number | Test type | Evaluation item | Confirmed Result |
|
| \*4-1 | Fax transmission feature | Confirm that transmission is possible by any of the G3/ G4/ IP fax line. |  |
| \*4-2 | Fax transmission feature | Confirm that transmission can be canceled. |  |
| \*4-3 | Fax transmission feature | Confirm that FAX undelivered message can be handled. |  |
| \*4-4 | FAX reception feature | Confirm that reception is possible by G3/ G4/ IP FAX/ Internet FAX. |  |
| \*4-5 | FAX reception feature | Confirm that operations concerning the received document are performed correctly. |  |

## 1.5. Memory and hard disk process feature evaluation items (selection items)

Evaluation items that SmartSDK application should meet regarding the memory and HDD process are shown.

|  |  |  |  |
| --- | --- | --- | --- |
| Category  Number | Test type | Evaluation item | Confirmed Result |
|
| \*5-1 | Memory  HDD | Confirm that the application can retrieve a file even if the power is turned off while reading a stored file. |  |
| \*5-2 | Memory  HDD | Confirm that the application can delete a file even if the power is turned off while deleting a stored file. |  |
| \*5-3 | Memory  HDD | Confirm the application can retrieve a file even if the screen is switched to the [Initial settings] screen |  |
| \*5-4 | Memory  HDD | Confirm the application can delete a file even if the screen is switched to the [User Tools] screen. |  |
| 5-5 | Memory  HDD | Confirm that failure of file creation is detected and handled. |  |
| 5-6 | Memory  HDD | Confirm that Power mode transition does not occur while hard disk is in use. |  |
| 5-7 | Memory  HDD | Confirm that failure of file creation due to the disk full is detected and handled. |  |
| 5-8 | Memory  HDD | Confirm that power mode (the engine turned off) does not have side effects on applications using the HDD. |  |

## 1.6. Network feature evaluation items (selection items)

Evaluation items that SmartSDK application should meet regarding the network handling are shown.

|  |  |  |  |
| --- | --- | --- | --- |
| Category  Number | Test type | Evaluation item | Confirmed Result |
|
| 6-1 | Network | Confirm operation after the network setting is changed. |  |

## 1.7. Application concurrence evaluation items (requisite items)

The minimum set of application concurrence evaluation items that SmartSDK application should meet are shown.

Note: the test items 7-7 and later only applies to the SmartSDK application software that use (scanner, plotter, or both).

|  |  |  |  |
| --- | --- | --- | --- |
| Category  Number | Test type | Evaluation item | Confirmed Result |
|
| 7-1 | Application concurrence | Confirm that SmartSDK application does not affect Web Image Monitor feature of the device. |  |
| 7-2 | Application concurrence | Confirm that SmartSDK application does not affect SNMP feature of the device. |  |
| 7-3 | Application concurrence | Confirm that SmartSDK application does not affect ftp feature of the device. |  |
| 7-4 | Application concurrence | Confirm that SmartSDK application does not affect the feature to store image from client PC on the Document Server of the MFD. |  |
| 7-5 | Application concurrence | Confirm that SmartSDK application does not affect net file feature of the device. | Unnecessary |
| 7-6 | Application concurrence | Confirm that Smart SDK application does not affect LPR print feature of the device. |  |
| \*7-7 | Application concurrence | Confirm that SmartSDK application and other concurrently running applications using scanner (copy and scanner type) perform properly in high load. |  |
| \*7-8 | Application concurrence | Confirm that SmartSDK application and other concurrently running applications not using scanner (printer type) perform properly in high load. | Unnecessary |
| \*7-9 | Application concurrence | Confirm that operation using the Scanner is unavailable from standard embedded/native applications when SmartSDK application is using Scanner. | Unnecessary |
| \*7-10 | Application concurrence | Confirm that operation using Printer is possible from standard embedded/native applications when SmartSDK application is using Scanner. |  |
| \*7-11 | Application concurrence | Confirm that operation using the Scanner is possible from standard embedded/native applications when SmartSDK application is using Printer. |  |
| \*7-12 | Application concurrence | Confirm that operation using the printer is possible from standard embedded/native applications when SmartSDK application is using Printer. |  |
| \*7-13 | Application concurrence | Confirm that operation using Scanner is unavailable from SmartSDK applications when standard embedded/native application is using Scanner. |  |
| \*7-14 | Application concurrence | Confirm the SmartSDK application can print while standard embedded/native application is using the scanner. |  |
| \*7-15 | Application concurrence | Confirm the SmartSDK application can scan while other standard embedded/native application is printing. |  |
| \*7-16 | Application concurrence | Confirm the SmartSDK application can print while standard embedded/native application is printing. |  |

## 1.8. Authentication Flow Customization Evaluation Items (selection items)

Evaluation items for SmartSDK authentication flow customization are shown.

|  |  |  |  |
| --- | --- | --- | --- |
| Category  Number | Test type | Evaluation item | Confirmed Result |
|
| 8-1 | Authentication Customization | Confirm that the screen is displayed correctly according to the display control. |  |
| 8-2 | Authentication Customization | Confirm that user login/logout can be executed. |  |
| 8-3 | Authentication Customization | Confirm that administrator login/logout can be executed. |  |
| 8-4 | Authentication Customization | Confirm that login/logout from WebImageMonitor can be executed. |  |
| 8-5 | Authentication Customization | Confirm that remote login/logout can be executed. |  |

## 1.9. Resource Consumption Evaluation Items (requisite items)

Evaluation items for SmartSDK application resource consumption are shown.

|  |  |  |  |
| --- | --- | --- | --- |
| Category  Number | Test type | Evaluation item | Confirmed Result |
|
| 9-1 | Resource Consumption  Memory | Confirm repeating the screen switching and application switching does not cause the memory leak. |  |
| 9-2 | Resource Consumption  Memory | Confirm that continuous operation of normal process does not cause memory leak |  |

# Chapter 2 SmartSDK Application Evaluation Procedure

(Note) Detailed procedure may differ by models.

## 2.1. Common Evaluation Procedure (requisite items)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 1-1 | | Test type | | Common feature (install) |
| Purpose | | Confirm that SmartSDK application can be installed | | | | |
| Prerequisite | |  | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Execute installation according to the delivery type of application. | |  | | Confirm the successful installation. | |
| 2 | Start the installed SmartSDK application. | |  | | Confirm it they can be started successfully. | |

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| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category  number | | 1-2 | | Test type | | Common feature(Power Mode) |
| Purpose | Confirm the change of the power mode (Auto Off) does not have side effects. | | | | | |
| Prerequisite | - The SmartSDK application is already installed. | | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Start the device, and startup evaluation target SmartSDK applications. | | Warm up is completed, and all embedded applications, including SmartSDK application icons are visible on the screen. | | In home screen, the icon of SmartSDK application is visible.  SmartSDK application icons are displayed correctly. | |
| 2 | Enter the configuration mode with the [System Settings] icon. | |  | | Confirm that System Settings screen is displayed. | |
| 3 | 1) In the System Settings dialog, choose "Timer Settings” tab.  2) Press [Sleep mode timer settings] key to change the timer for the sleep mode. | | - Set Sleep mode timer to the minimum time available.  - Set the System Reset Timer to be longer than the Sleep mode timer. | | Timer settings are done. Values for reset timer are different from sleep mode timer. | |
| 4 | Press [Exit] key twice, to exit System settings mode. | |  | | Return to the Home screen. | |
| 5 | Wait until the device changes to the sleep mode. | |  | | - The device changes to the sleep mode, and the operation panel turns off.  - After a while, the power LED slowly blinks. | |
| 6 | Press the touch panel (Recover from the power off mode.) | |  | | The Home screen is displayed. | |
| 7 | Start the SmartSDK application. | |  | | - Confirm that SmartSDK application screen is displayed.  - Also, confirm that process is continued properly after that. | |

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| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 1-3 | | Test type | | Common feature(Power Mode) |
| Purpose | | Confirm the change of the power mode (power off with the [Power] key) does not have side effects. | | | | |
| Prerequisite | | - The SmartSDK application is already installed. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Start the device, and startup evaluation target SmartSDK applications. | | Warm up is completed, and all embedded applications, including SmartSDK application icons are on the screen. | | In home screen, the icon of SmartSDK application is visible.  SmartSDK application icons are displayed correctly. | |
| 2 | Press the [Energy Save] key on the panel. | |  | | - Confirm that touch panel light is off.  - After a while, the power LED slowly blinks. | |
| 3 | Press the touch panel (Recover from the power off mode.) | |  | | The Home screen is displayed. | |
| 4 | Start the SmartSDK application. | |  | | - Confirm that SmartSDK application screen is displayed.  - Also, confirm that process is continued properly after that. | |

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| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 1-4 | | Test type | | Common feature (Operation Panel) |
| Purpose | | Confirm that the application switching does not have side effects. | | | | |
| Prerequisite | | - The SmartSDK application is already installed. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Start the SmartSDK application. | |  | | - Confirm that SmartSDK application screen is displayed. | |
| 2 | Press the Home key. | |  | | Confirm the Home screen is displayed properly. | |
| 3 | Start the SmartSDK application, and display the SmartSDK application. | |  | | - Confirm that SmartSDK application screen is displayed.  - Also, confirm that process is continued properly after that. | |

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| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 1-5 | | Test type | | Common feature (Device state transition) |
| Purpose | | Confirm the lock and release of the transition to the offline mode functions correctly. | | | | |
| Prerequisite | | - SmartSDK application performs the transition control to Offline mode(\*1)  - SmartSDK application must be already running.  (\*1) Offline: State in which event is not notified to application | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Start the SmartSDK application. | | When the SmartSDK application is not locking the mode transition. | | SmartSDK application screen is visible. | |
| 2 | 1) Press the Home key.  2) Press [User Tools] icon.  3) In the User Tools dialog, press "System Settings" button. | |  | | Confirm that transition to Offline is done properly | |
| 3 | Press [Initial settings] icon on the Operation Panel | |  | | Confirm that recovery from Offline is done properly | |
| 4 | Perform an operation that will lock the transition to the Offline mode in the SmartSDK application (e.g. scanning with SmartSDK application). | | The SmartSDK application is locking the mode transition. | | Operation is running. | |
| 5 | 1) Press the Home key.  2) Press [User Tools] icon.  3) In the User Tools dialog, press "System Settings" button. | |  | | Confirm that buzzer beeps at the key press, and the device does not transit to the offline mode. | |
| 6 | Perform an operation that will unlock the transition to the Offline mode in the SmartSDK application. (e.g. completing the scan) | |  | |  | |
| 7 | 1) Press the Home key.  2) Press [User Tools] icon.  3) In the User Tools dialog, press "System Settings" button. | | When the SmartSDK application is not locking the mode transition. | | Confirm that transition prohibition is released with the end of the SmartSDK application, and transition to the device changes to the offline mode (means: device is offline when “System Settings” menu is displayed). | |
| 8 | Press [User Tools/Counter]  icon on the Operation Panel | |  | | Confirm that recovery from Offline is done properly | |

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| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 1-6 | | Test type | | Common feature (Device state transition) |
| Purpose | | Confirm the lock and release of the transition to the Operation Panel Off mode functions correctly. | | | | |
| Prerequisite | | - SmartSDK application locks the transition to the Operation Panel Off mode (\*1)  - SmartSDK application must be already running.  (\*1) Operation Panel off : Operation Panel is hidden and touch key is inactivated | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Start the SmartSDK application. | | When the SmartSDK application is not locking the mode transition. | | SmartSDK application screen is visible. | |
| 2 | Press [Energy Save] touch key on the Operation Panel. | |  | | Confirm that transition to Operation Panel off state is done properly | |
| 3 | Press the touch panel. | |  | | Confirm that recovery from Operation Panel off state is done properly | |
| 4 | Perform an operation that prohibits transition to Operation Panel off in SmartSDK application (e.g. scanning with SmartSDK application). | | The SmartSDK application is locking the mode transition. | | Operation is running. | |
| 5 | Press [Energy Save] touch key on the Operation Panel. | |  | | Confirm that buzzer beeps at key press, and the Operation Panel does not switch to turn off from the Smart SDK application. | |
| 6 | Perform an operation that permits transition to Operation Panel off in SmartSDK application (e.g. logout of SmartSDK application). | |  | | Operation has ended. | |
| 7 | Press [Energy Save] touch key on the Operation Panel. | | When the SmartSDK application is not locking the mode transition. | | Confirm that transition prohibition is released at the end of the SmartSDK application, and that the Operation Panel changes to the off mode. | |
| 8 | Press the touch panel. | |  | | Confirm that recovery from Operation Panel off state is done properly | |

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| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 1-7 | | Test type | | Common feature (Device state transition) |
| Purpose | | Confirm the lock and release of the transition to the Power Off mode functions correctly. | | | | |
| Prerequisite | | - The SmartSDK application uses the Power Off (\*1) transition lock.  - SmartSDK application must be already running.  (\*1) Power off: Power Off by the power switch or timer, and not the power off by the hardware power switch. This indicates transition to Energy save mode. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Change the setting of auto off time in System settings | | When power goes off by timer | | Power off timer is set in System Settings. | |
| 2 | Start the SmartSDK application. | | When the SmartSDK application is not locking the mode transition. | | SmartSDK application screen is visible. | |
| 3 | Leave for the time set in No1, and receive the notification of power off by timer | |  | | - Confirm that touch panel light is off.  - The power LED slowly blinks. | |
| 4 | Press the touch panel. | |  | | - The Home screen is displayed.  - Confirm that recovery from Power off state is done properly | |
| 5 | Perform an operation that prohibits the transition to the Power off mode in SmartSDK application | | The SmartSDK application is locking the mode transition. | | Operation is running. | |
| 6 | Leave for the time set in No1, and receive the notification of power off by timer | |  | | - Confirm that touch panel light is off.  - The power LED remains on. | |
| 7 | Press the touch panel. | |  | | - The Home screen is displayed.  - Confirm that recovery from Power off state is done properly | |
| 8 | Perform an operation that releases the lock of the transition to the Power off mode in SmartSDK application. (e.g. completing the scan job) | |  | | Operation is executed. | |
| 9 | Leave for the time set in No1, and receive the notification of power off by timer (e.g. the power LED slowly blinks). | | When the SmartSDK application is not locking the mode transition. | | - Confirm that touch panel light is off.  - The power LED slowly blinks. | |
| 10 | Press the touch panel. | |  | | - The Home screen is displayed.  - Confirm that recovery from Power off state is done properly | |

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| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 1-8 | | Test type | | Common feature (Device state transition) |
| Purpose | | The system auto reset does not have side effects | | | | |
| Prerequisite | | - A SmartSDK application has already been installed.  - The system auto reset time has been specified for the timer settings in the system default settings　(Recommended time: 10 to 20 seconds)  "Home Screen" is specified as the priority application | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Start the device, and then start the SmartSDK application to be evaluated | | The system warm-up is completed, and all installed applications including SmartSDK application icons are running | | The target application screen is properly displayed | |
| 2 | After the SmartSDK application starts, the time specified for the system auto reset timer passes | |  | | The screen returns to the Home screen | |
| 3 | After a job is executed from the SmartSDK application and while the application screen is displayed, the time specified for the system auto reset timer passes | | Execute a job whose duration from the start to the end is longer than the time specified for the system auto reset timer | | Transition to the Home Screen does not occur while a job is being executed | |
| 4 | After a job is executed from the SmartSDK application and while the application is switched to another application, the time specified for the system auto reset timer passes | | Same as above | | When an application with its job running is not displayed, transition to the Home Screen occurs even while the job is being executed | |
| 5 | After a job is executed from the SmartSDK application and while the application is displayed again after it is switched to another application, the time specified for the system auto reset timer passes | | Same as above | | When an application with its job running is displayed, transition to the Home screen does not occur while the job is being executed | |
| 6 | After a job executed from the SmartSDK application ends and while the application screen is displayed, the time specified for the system auto reset timer passes | |  | | The screen returns to the Home screen | |
| 7 | If system auto reset is temporarily enabled while a job is being executed, which is a specification unique to the SmartSDK application to be evaluated (e.g. while the ScanSample preview screen is being displayed), the time specified for the system auto reset timer passes while the application screen is displayed. | |  | | The screen returns to the Home screen | |

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 1-9 | | Test type | | Common feature (Device state transition) |
| Purpose | | Login/logout can be executed | | | | |
| Prerequisite | | - The SmartSDK application can lock/unlock logout (reject/cancel the rejection of) logout  - Personal authentication is enabled, and the user is logged in as a general user having permissions to use the SmartSDK application | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | 1) Start the SmartSDK application to be evaluated | | After the device starts, the SmartSDK application to be evaluated has not executed any operation that leads to logout prohibition | |  | |
|  | 2) Press the "Logout" key on the operation panel. Press OK when the logout confirmation screen is displayed | |  | | Logout can be properly executed. | |
| 2 | 1) Using the SmartSDK application to be evaluated, execute an operation that leads to logout prohibition | | Logout is not prohibited in the SmartSDK application to be evaluated | |  | |
|  | 2) Press the "Logout" key on the operation panel. Press OK when the logout confirmation screen is displayed | |  | | Logout fails | |
| 3 | 1) Using the SmartSDK application to be evaluated, execute an operation that cancels logout prohibition | | Logout is prohibited for the SmartSDK application to be evaluated | |  | |
|  | 2) Press the "Logout" key on the operation panel. Press OK when the logout confirmation screen is displayed | |  | | Logout can be properly executed. | |

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| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 1-10 | | Test type | | Common feature (Device state transition) |
| Purpose | | Transition to energy saving mode following logout does not occur while a job is being executed | | | | |
| Prerequisite | | - A SmartSDK application that executes a job in the login state  - A SmartSDK application that rejects logout while a job is being executed  - A SmartSDK application has already been installed | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | The SmartSDK application screen is displayed in the login state | | A longer period of time is specified for the "auto logout timer" than the "sleep mode timer" | |  | |
| 2 | Execute a job from the SmartSDK application | | A longer period of time is specified for a job than the "auto logout timer" | |  | |
| 3 | Wait until the time specified for the "auto logout timer" passes (While a job is being executed) | |  | | - Logout is not executed  - Transition to energy saving mode following logout does not occur | |
| 4 | Execute logout after confirming that a job execution is completed | |  | | - Logout can be executed | |
| 5 | Log in again | |  | |  | |
| 6 | Wait without executing a job from the SmartSDK application and other operations | | A longer period of time is specified for wait time than the "auto logout timer"  Logout is not rejected for "wait time" | |  | |
| 7 | A longer period of time is specified for wait time than the "auto logout timer" | |  | | - Logout is executed when transition to energy saving mode occurs | |

## 2.2. Print Feature Related Evaluation Procedure (selection items)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*2-1 | | Test type | | Print feature |
| Purpose | | **Confirm that paper jam is detected and dealt with** | | | | |
| Prerequisite | | - SmartSDK application has Printer feature.  - SmartSDK application is in operational state.  - SmartSDK application is ready to print sufficient pages to test the paper jam. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | | Status Check LED is turned off | | SmartSDK application screen is visible. | |
| 2 | Execute print from the SmartSDK application. | |  | | Device is executing print job. | |
| 3 | - Open the front cover during printing.  << Other procedure >>  - When printing from the manual tray, hold the paper by hand.  - If the feed tray is specified, set the paper of the different size. (\*2-2-1) | | The error status other than paper jam does not occur. | | - The Status Check LED turns on, and the alert is processed according to the application specification. | |
| 4 | Remove the transfer paper that caused jam, and close the cover. | |  | | - The Status Check LED turns off, and the alert display turns off.  - Confirm that successive operation can be done properly according to the specification of application. | |

\*2-2-1 Set the paper size in [User Tools] - [System Settings] - [Paper] menu.

Example: Configure the [Paper] as A4, and set the A3 paper in the paper tray.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 2-2 | | Test type | | Print feature |
| Purpose | | **Confirm that paper jam is detected and handled when the SmartSDK application is not the screen owner** | | | | |
| Prerequisite | | - SmartSDK application has Printer feature.  - SmartSDK application is operational state.  - SmartSDK application is ready to print sufficient pages (multiple pages) to test the paper jam. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | | Status Check LED is turned off | | SmartSDK application screen is visible. | |
| 2 | Execute print from the SmartSDK application. | |  | | Device is executing print job. | |
| 3 | - Press the Home key to switch to the Home screen.  - Switch the application to  the native scanner application | | The SmartSDK application is in operation but it is not displaying on the panel. | | Native scanner screen is visible and print job of SmartSDK application is still executing. | |
| 4 | - Open the front cover during print execution.  << Other procedure >>  - When printing from the manual tray, hold the paper by hand.  - If the feed tray is specified, set the paper of the different size. (\*2-2-2) | | The error status other than cover open does not occur. | | - The Status Check LED turns on  - Confirm that alert process according to application specification is taken. | |
| 5 | - Press the Home key to switch to the Home screen.  - Start the SmartSDK application. | |  | | - Confirm that alert is processed according to application specifications for paper jam handling. | |
| 6 | Remove the transfer paper that caused jam, and close the cover. | | SmartSDK application is still displayed. | | - The Status Check LED turns off, and the alert display turns off.  - Confirm that successive operation can be done properly according to the specification of application. | |

\*2-2-2Set the paper size in [User Tools] - [System Settings] - [Paper] menu.

Example: Configure the [Paper] as A4, and set the A3 paper in the paper tray.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*2-3 | | Test type | | Print feature |
| Purpose | | **Confirm that paper shortage is detected and handled appropriately.** | | | | |
| Prerequisite | | - SmartSDK application has Printer feature.  - SmartSDK application is in operational state. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | | Status Check LED is turned off | | SmartSDK application screen is visible. | |
| 2 | Set papers less than the number of pages to print to the target paper tray. | | Limitless print is not performed  (Set a paper of the size different from the configuration, or leave the tray empty. | | Paper tray is loaded. | |
| 3 | Execute print from the SmartSDK application. | | - The target feeder tray becomes empty.  - The error status other than paper empty does not occur. | | - The Status Check LED turns on, and the alert is processed according to the application specification for the paper empty error. | |
| 4 | Supply paper to the target paper tray with it or more sheets than required for the print job execution. | |  | | - The Status Check LED turns off, and the paper empty alert display turns off.  - Confirm that successive operation can be done properly according to the specification of application. | |

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| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 2-4 | | Test type | | Print feature |
| Purpose | | **Confirm that the paper empty is detected and handled when the SmartSDK application is not the screen owner** | | | | |
| Prerequisite | | - SmartSDK application has Printer feature.  - SmartSDK application is operational state.  - SmartSDK application is ready to print sufficient pages (multiple pages) to test switching the application | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | | Status Check LED is turned off | | SmartSDK application screen is visible. | |
| 2 | Set papers less than the number of pages to print to the target paper tray. | | Leave other feeder trays empty. | | Paper tray is loaded. | |
| 3 | Execute print from the SmartSDK application. | |  | | Print execution is running. | |
| 4 | - Press the Home key to switch to the Home screen.  - Switch to the native scanner application. | | The SmartSDK application is in operation when it is not displaying on the panel.  - The target feeder tray becomes empty.  - The error status other than paper empty does not occur. | | - Native scanner screen is displayed.  - The Status Check LED turns on.  - Confirm that alert process according to application specification is taken. | |
| 5 | - Press the Home key to switch to the Home screen.  - Start the SmartSDK application. | |  | | - Confirm that alert is processed according to application specifications for paper empty handling. | |
| 6 | Supply paper to the target paper tray with same or more sheets than required for the print job execution. | | SmartSDK application is still displayed. | | - The Status Check LED turns off, and the paper empty alert display turns off.  - Confirm that successive operation can be done properly according to the specification of application. | |

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| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*2-5 | | Test type | | Print feature |
| Purpose | | Confirm that toner shortage is detected and handled appropriately. | | | | |
| Prerequisite | | - SmartSDK application has Printer feature.  - SmartSDK application is in operational state. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | | Status Check LED is turned off | | SmartSDK application screen is visible. | |
| 2 | Replace toner bottle with an empty one. (Alternatively, take off the toner bottle from the device if possible to run device without error message.) | |  | | Toner empty/low message is displayed on the screen.  \* Some device becomes "Unit not set correctly" status at this point. | |
| 3 | Continue printing with the SmartSDK application until the toner is empty. | | - The device runs out of the toner.  - The error status other than toner empty or near toner empty does not occur. | | - Confirm that the Status Check LED turns ON before the image on the paper is chipped or faded.  - Confirm that alert is processed according to application specifications for toner empty or toner near empty handling. | |
| 4 | Load the full toner bottle to the device. | |  | | - The Status Check LED turns off, and the no toner or toner near empty alert display turns off.  - Confirm that successive operation can be done properly according to the specification of application. | |

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| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 2-6 | | Test type | | Print feature |
| Purpose | | **Confirm that the toner empty is detected and handled when the SmartSDK application is not the screen owner** | | | | |
| Prerequisite | | - SmartSDK application has Printer feature.  - SmartSDK application is in operational state. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | | Status Check LED is turned off | | SmartSDK application screen is visible. | |
| 2 | Replace toner bottle with an empty one. (Alternatively, take off the toner bottle from the device if possible to run device without error message.) | |  | | Toner empty/low message is displayed on the screen.  \* Some device becomes "Unit not set correctly" status at this point. | |
| 3 | Start a multiple pages print job with the SmartSDK application. | |  | | Print job is executing. | |
| 4 | - Continue printing with the SmartSDK application until the toner is empty.  - Press the Home key to switch to the Home screen.  - Display the scanner application. | | The SmartSDK application is in operation when it is not displaying on the panel.  - The device runs out of the toner.  - The error status other than toner empty or near toner empty does not occur. | | - Confirm that the Status Check LED turns ON before the image on the paper is chipped or faded.  - Confirm that alert is processed according to application specifications. | |
| 5 | - Press the Home key to switch to the Home screen.  - Start the SmartSDK application. | |  | | - Confirm that alert is processed according to application specifications for toner empty handling. | |
| 6 | Load the full toner bottle to the device. | | SmartSDK application is still displayed. | | - Confirm that Status Check LED goes OFF, and toner empty alert display is cleared.  - Confirm that successive operation can be done properly according to the specification of application. | |

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| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 2-7 | | Test type | | Print feature |
| Purpose | | **Confirm that MFD/printer door open is detected and handled appropriately.** | | | | |
| Prerequisite | | - SmartSDK application has Printer feature.  - SmartSDK application is in operational state. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | | Status Check LED is turned off | | SmartSDK application screen is visible. | |
| 2 | Open front cover. | | - SmartSDK application is displayed.  - The error status other than cover open does not occur. | | - The Status Check LED turns on, and the alert is processed according to the application specification for the cover open error. | |
| 3 | Close the front cover. | |  | | - The Status Check LED turns off, and the paper jam alert display turns off.  - Confirm that successive operation can be done properly according to the specification of application. | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*2-8 | | Test type | | Print feature |
| Purpose | | **Confirm that feeder tray not set is detected and handled appropriately.** | | | | |
| Prerequisite | | - SmartSDK application has Printer feature.  - SmartSDK application is in operational state. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | | Status Check LED is turned off | | SmartSDK application screen is visible. | |
| 2 | Pull out the paper tray. | | - SmartSDK application is displayed.  - Paper selection is set to the target paper tray.  - The error status other than the Unit not set does not occur. | | - Confirm that the Status Check LED turns ON, and Printer feature becomes unavailable. | |
| 3 | Return the target paper tray. | |  | | - Confirm that the Status Check LED turns OFF, and Printer feature becomes available.  - Confirm that successive operation can be done properly according to the specification of application. | |

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| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*2-9 | | Test type | | Print feature |
| Purpose | | **Confirm that unsupported print service necessary can be detected and handled appropriately.** | | | | |
| Prerequisite | | - SmartSDK application has Printer feature.  - SmartSDK application can request print of file type not supported by the test target machine  - SmartSDK application is in operational state. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | |  | | SmartSDK application screen is visible. | |
| 2 | Request print of file type not supported by print service  Note: The printer may not support the file types that require an optional module. Such file types are: R98, R16, RGL (RP-GL/2). | | Test target machine does not support the print service corresponding to the file type requested | | - Confirm that SmartSDK application detects the print service does not support the file type beforehand, and notifies that print is not possible. | |

## 2.3. Scan Feature Related Evaluation Procedure (selection items)

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| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*3-1 | | Test type | | Scan feature |
| Purpose | | **Confirm that scanning is proper in platen mode** | | | | |
| Prerequisite | | - SmartSDK application has Scanner feature that supports scanning using the platen glass.  - SmartSDK application is operational state. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | |  | | SmartSDK application screen is visible. | |
| 2 | Place the original on platen glass. | |  | | Original sheet is placed on the platen glass. | |
| 3 | Start scanning. | |  | | Confirm that the original placed on the platen glass is scanned. | |

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| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*3-2 | | Test type | | Scan feature |
| Purpose | | **Confirm that scanning is proper in ADF mode.** | | | | |
| Prerequisite | | - Device has DF/ADF  - SmartSDK application has Scanner feature that supports scanning using the ADF.  - SmartSDK application is operational state. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | |  | | SmartSDK application screen is visible. | |
| 2 | Start scan without any original set to DF/ADF | |  | | SmartSDK application detects that there are no originals beforehand, and notifies it. | |
| 3 | - Place the whole batch of original on DF/ADF.  - Start scanning. | |  | | Original is fed one at a time from DF/ADF, and is properly scanned. | |

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| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*3-3 | | Test type | | Scan feature |
| Purpose | | **Confirm that paper jam at the original scan is detected and handled appropriately.** | | | | |
| Prerequisite | | - Device has DF/ADF  - SmartSDK application has Scanner feature that supports scanning using the ADF.  - SmartSDK application is operational state. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | | Status Check LED is turned off | | SmartSDK application screen is visible. | |
| 2 | Set the whole block of copy originals (multiple sheets, e.g. 100) to the DF/ADF. | | Set the number of sheets sufficient to generate the document jam. | | ADF is loaded with originals to be scanned. | |
| 3 | Start scanning. | |  | | ADF scanning process is executing. | |
| 4 | Open DF/ADF cover during scan.  << Alternate procedure >>  - Hold the document in the DF/ADF during the document is fed by the DF/ADF. | | - The error status other than paper jam does not occur. | | - The Status Check LED turns on, and the alert is processed according to the application specification for the document jam error. | |
| 5 | Remove the paper that caused the jam, and close the cover. | |  | | - The Status Check LED turns off, and the alert display turns off.  - Confirm that successive operation can be done properly according to the specification of application. | |

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| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 3-4 | | Test type | | Scan feature |
| Purpose | | **Confirm that DF door open is detected and handled appropriately** | | | | |
| Prerequisite | | - Device has DF/ADF  - SmartSDK application has Scanner feature that supports scanning using the ADF.  - SmartSDK application is operational state. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | | Status Check LED is turned off | | SmartSDK application screen is visible. | |
| 2 | Open the DF/ADF cover. | | - Smart SDK application is displayed.  - The error status other than cover open does not occur. | | - The Status Check LED turns on, and the alert is processed according to the application specification for the cover open error. | |
| 3 | Close the cover. | |  | | - The Status Check LED turns off, and the paper jam alert display turns off.  - Confirm that successive operation can be done properly according to the specification of application. | |

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| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*3-5 | | Test type | | Scan feature |
| Purpose | | **Confirm that no original is detected and handled appropriately.** | | | | |
| Prerequisite | | - Smart SDK application has Scanner feature that supports scanning using the platen glass.  - SmartSDK application is operational state. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | |  | | SmartSDK application screen is visible. | |
| 2 | Operate scan without any original set. | | - For models without DF/ADF.  - Original is not on contact glass. | | - No original alert, according to application specifications, is displayed.  - Confirm that successive operation can be done properly according to the specification of application.  (\*2-3-5b) | |
|  |  | | - For models with DF/ADF.  - Original is not in DF/ADF.  - Original is not on platen glass. | | - No original alert, according to application specifications, is displayed.  - Confirm that successive operation can be done properly according to the specification of application.  (\*2-3-5b) | |
|  |  | | - For models with DF/ADF.  - DF/ADF is lifted up (\*2-3-5a)  - Original is not on platen glass. | | - No original alert, according to application specifications, is displayed.  - Confirm that successive operation can be done properly according to the specification of application.  (\*2-3-5c) | |

\*2-3-5a DF/ADF lift up: operation to keep the DF/ADF or the platen cover open for about 30 degrees.

\*2-3-5b Canceling the scan, or retrying the scan after re-setting the document

\*2-3-5c Canceling the scan or retrying the scan after re-setting the document, checking the platen glass, etc.

## 2.4. Fax Feature Related Evaluation Procedure (selection items)

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| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*4-1 | | Test type | | Fax transmission feature |
| Purpose | | **Confirm that transmission is possible by any of the G3/ G4/ IP fax line.** | | | | |
| Prerequisite | | - Application has fax transmission feature.  - SmartSDK application is operational state.  - Standard fax application is embedded, and transmission is normally available. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | |  | | SmartSDK application screen is visible. | |
| 2 | Perform fax transmission using the corresponding line from SmartSDK application | | Use G3 line | | - Confirm that "Communicating” LED turns on with the start of transmission.  - Confirm the result in the transmission result screen of standard fax application, and that the date, destination, number of pages sent and such are properly displayed.  - Image is received normally by the receiving device. | |
|  |  | | Use G4 line | | - Confirm that "Communicating” LED turns on with the start of transmission.  - Confirm the result in the transmission result screen of standard fax application, and that the date, destination, number of pages sent and such are properly displayed.  - Image is received normally by the receiving device. | |
|  |  | | Use IP fax | | - Confirm that "Communicating” LED turns on with the start of transmission.  - Confirm the result in the transmission result screen of standard fax application, and that the date, destination, number of pages sent and such are properly displayed.  - Image is received normally by the receiving device. | |

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| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*4-2 | | Test type | | Fax transmission feature |
| Purpose | | **Confirm that transmission can be canceled** | | | | |
| Prerequisite | | - Application has fax transmission feature.  - SmartSDK application is operational state.  - Standard fax application is embedded, and transmission is normally available. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | |  | | SmartSDK application screen is visible. | |
| 2 | Perform transmission using the corresponding line from SmartSDK application, then cancel during the transmission | | Use G3 line | | - Confirm that transmission cancel result can be obtained.  - Confirm that the receiving device has not received the document. | |
|  |  | | Use G4 line | | - Confirm that transmission cancel result can be obtained.  - Confirm that the receiving device has not received the document. | |
|  |  | | Use IP fax | | - Confirm that transmission cancel result can be obtained.  - Confirm that the receiving device has not received the document. | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*4-3 | | Test type | | Fax transmission feature |
| Purpose | | **Confirm that fax undelivered message can be handled** | | | | |
| Prerequisite | | - Application has fax transmission feature.  - SmartSDK application is operational state.  - Standard fax application is embedded, and transmission is normally available. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | |  | | SmartSDK application screen is visible. | |
| 2 | On the testing device, unplug the communication cable for the fax transmission | |  | | Fax cable is unplugged. | |
| 3 | Perform fax transmission using the corresponding line from SmartSDK application | |  | | - Confirm that SmartSDK application detects the fax transmission failure.  - Confirm that fax undelivered alert corresponding to the application specification is displayed  - Confirm that successive operation can be done properly according to the specification of application. | |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*4-4 | | Test type | | Fax reception feature |
| Purpose | | **Confirm that reception is available by G3/G4/IP fax/Internet fax** | | | | |
| Prerequisite | | - SmartSDK application has fax reception feature.  - SmartSDK application is operational state.  - Standard fax application is embedded, and reception is normally available.  - The fax transmission device for the test supports the testing transmission line type. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | |  | | SmartSDK application screen is visible. | |
| 2 | On the testing device, open the  [Initial settings]  - [Fax Settings]  - [Reception Settings]  - [Reception File Settings]  screen and set to Store = On. | | The SmartSDK application of the test target device is in ready to receive fax transmission. | | All settings are done on the testing device. | |
| 3 | Perform fax transmission from the fax transmission device. | | Use G3 line | | - Confirm that the SmartSDK application properly receives fax reception notification  - SmartSDK application properly imports reception information.  - Confirm that successive operation can be done properly according to the specification of application. | |
|  |  | | Use G4 line | | - Confirm that the SmartSDK application properly receives fax reception notification  - SmartSDK application properly imports reception information.  - Confirm that successive operation can be done properly according to the specification of application. | |
|  |  | | Use IP fax | | - Confirm that the SmartSDK application properly receives fax reception notification  - SmartSDK application properly imports reception information.  - Confirm that successive operation can be done properly according to the specification of application. | |
|  |  | | Use IP fax | | - Confirm that the SmartSDK application properly receives fax reception notification  - SmartSDK application properly imports reception information.  - Confirm that successive operation can be done properly according to the specification of application. | |

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| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*4-5 | | Test type | | Fax reception feature |
| Purpose | | **Confirm that operations concerning the received document is performed correctly** | | | | |
| Prerequisite | | - SmartSDK application has fax reception feature.  - SmartSDK application performs operations to the fax received document  - SmartSDK application is operational state.  - Standard fax application is embedded, and reception is normally available.  - The fax transmission device for the test supports the testing transmission line type. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | |  | | SmartSDK application screen is visible. | |
| 2 | On the testing device, open the  [Initial settings]  - [Fax Settings]  - [Reception Settings]  - [Reception File Settings]  screen and set to Store = On. | | The SmartSDK application of the test target device is in ready to receive fax transmission. | | All settings are done on the testing device. | |
| 3 | Perform fax transmission from the fax transmission device to the test device that has the SmartSDK application installed. | | Use G3 line | | - If the SmartSDK application supports search on the received documents, confirm the search result is correct.  - If the SmartSDK application supports TIFF conversion, confirm the conversion result is correct.  - If the SmartSDK application supports deleting the received documents, confirm the delete operation functions correctly. | |
|  |  | | Use G4 line | | - If the SmartSDK application supports search on the received documents, confirm the search result is correct.  - If the SmartSDK application supports TIFF conversion, confirm the conversion result is correct.  - If the SmartSDK application supports deleting the received documents, confirm the delete operation functions correctly. | |
|  |  | | Use IP fax | | - If the SmartSDK application supports search on the received documents, confirm the search result is correct.  - If the SmartSDK application supports TIFF conversion, confirm the conversion result is correct.  - If the SmartSDK application supports deleting the received documents, confirm the delete operation functions correctly. | |
|  |  | | Use IP fax | | - If the SmartSDK application supports search on the received documents, confirm the search result is correct.  - If the SmartSDK application supports TIFF conversion, confirm the conversion result is correct.  - If the SmartSDK application supports deleting the received documents, confirm the delete operation functions correctly. | |

## 2.5. Memory and Hard Disk Process Feature Evaluation Procedure (selection items)

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| --- | --- | --- | --- | --- | --- | --- |
| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*5-1 | | Test type | | Memory, HDD |
| Purpose | | Confirm that the application can retrieve a file even if the power is turned off while reading a stored file. | | | | |
| Prerequisite | | -SmartSDK application that creates, retrieves, and deletes a stored file.  - SmartSDK application is in operational state.  - A stored file is in the storage area and accessible with the SmartSDK application. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Retrieve the stored file using the SmartSDK application | |  | |  | |
| 2 | Turn Off/On the main power while the application is retrieving the stored file. | |  | | The device turns on correctly. | |
| 3 | Start the SmartSDK application. | | The retrieved file should be available in the SmartSDK application. | | The stored file is retrieved correctly. | |

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*5-2 | | Test type | | Memory, HDD |
| Purpose | | Confirm that the application can delete a file even if the power is turned off while deleting a stored file. | | | | |
| Prerequisite | | -SmartSDK application that creates, retrieves, and deletes a stored file.  - SmartSDK application is in operational state.  - A stored file is in the storage area and deletable with the SmartSDK application. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Delete the stored file using the SmartSDK application | |  | |  | |
| 2 | Turn Off/On the main power while the application is deleting the stored file. | |  | | The device turns on correctly. | |
| 3 | Start the SmartSDK application. | |  | | The file should have been deleted. | |

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*5-3 | | Test type | | Memory, HDD |
| Purpose | | Confirm the application can retrieve a file even if the screen is switched to the [User Settings] screen | | | | |
| Prerequisite | | -SmartSDK application that creates, retrieves, and deletes a stored file.  - SmartSDK application is in operational state.  - A stored file is in the storage area and accessible with the SmartSDK application. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Retrieve the stored file using the SmartSDK application | |  | |  | |
| 2 | Switch to the [User Tools] screen while the application is retrieving the stored file.  - Press Home key  - Flick to the left  - Press [User Tools] icon | |  | | The [User Tools] screen appears. | |
| 3 | Start the SmartSDK application. | | The retrieved file should be available in the SmartSDK application. | | The stored file is retrieved correctly. | |

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*5-4 | | Test type | | Memory, HDD |
| Purpose | | Confirm the application can delete a file even if the screen is switched to the [User Tools] screen. | | | | |
| Prerequisite | | -SmartSDK application that creates, retrieves, and deletes a stored file.  - SmartSDK application is in operational state.  - A stored file is in the storage area and deletable with the SmartSDK application. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Delete the stored file using the SmartSDK application | |  | |  | |
| 2 | Switch to the [User Tools] screen while the application is deleting the stored file.  - Press Home key  - Flick to the left  - Press [User Tools] icon | |  | | The [User Tools] screen appears. | |
| 3 | Start the SmartSDK application. | |  | | The file should have been deleted. | |

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 5-5 | | Test type | | Memory, HDD |
| Purpose | | Confirm that failure of file creation is detected and handled. | | | | |
| Prerequisite | | - SmartSDK application creates the file on the HDD | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Create dummy files into the install destination directory of SmartSDK application, until creation of new file becomes unavailable. | | - Number of files available for creation depends on models, so create dummy files to the maximum of the test target device.  - And the dummy files can be deleted from the SmartSDK application. | | The HDD directory is full. No other file can be stored on HDD. | |
| 2 | Restart the device. | |  | | Device is rebooted. | |
| 3 | Start the SmartSDK application. | |  | | SmartSDK application screen is visible. | |
| 4 | Operate process including file creation with SmartSDK application. | |  | | Confirm that alert is displayed to show process cannot be continued. | |
| 5 | Execute file deletion process according to application specifications. | | Remove one dummy file. | | Dummy files are deleted from HDD directory. | |
| 6 | Return to SmartSDK application screen, and operate process including file creation again. | | Cannot create a file. | | Check the Confirmation item in Step 4, followed by Step 5 and Step 6. | |
|  |  | | Possible to create a file. | | The file is created. | |

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 5-6 | | Test type | | Memory, HDD |
| Purpose | | Confirm that power mode transition does not occur while hard disk is used | | | | |
| Prerequisite | | - SmartSDK application accesses hard disk  - While SmartSDK application is accessing to hard disk, the transition to power off is rejected.  - SmartSDK application must be already installed. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Start the SmartSDK application. | |  | | SmartSDK application screen is visible. | |
| 2 | Press the [Energy Save] key on the panel. | | When SmartSDK application is accessing to hard disk | | - Confirm that Power off is not executed  (Power mode transition is rejected) | |
|  |  | | When SmartSDK application is not accessing to hard disk | | - Confirm that touch panel light is off.  - Confirm that the power LED turns off after blinking for few seconds.  - Confirm that the machine recovers from power cut by pressing the [Energy Save] key again | |
| 3 | Enter the configuration mode with the [System Settings] icon.  Press a proper key from Initial setting screen | | When SmartSDK application is not accessing to hard disk | | Confirm that transition to Offline is done properly | |
|  |  | | When SmartSDK application is accessing to hard disk | | Confirm that buzzer beeps at the key press, and the device does not transit to the offline mode. | |

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| SmartSDK Application Evaluation Procedure | | | Program name | |  |
| Category number | 5-7 | | Test type | | Memory, HDD |
| Purpose | Confirm that failure of file creation is detected and dealt with. | | | | |
| Prerequisite | - SmartSDK application creates the file on the HDD | | | | |
| No | Test procedure | Test conditions | | Confirmations | |
| 1 | Create dummy files into the install destination directory of SmartSDK application, until creation of new file becomes unavailable. | - Number of files available for creation depends on models, so create dummy files to the maximum of the test target device.  - And the dummy files can be deleted from the SmartSDK application. | |  | |
| 2 | Restart the device. |  | |  | |
| 3 | Start the SmartSDK application. |  | |  | |
| 4 | Operate process including file creation with SmartSDK application. |  | | Confirm that alert is displayed to show process cannot be continued. | |
| 5 | Execute file deletion process according to application specifications. | Delete until file creation in SmartSDK application becomes available again. | |  | |
| 6 | Return to SmartSDK application screen, and operate process including file creation again. |  | | Confirm that it is properly processed. | |

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| SmartSDK Application Evaluation Procedure | | | Program name | |  |
| Category number | 5-8 | | Test type | | Memory, HDD |
| Purpose | Power mode (the engine turned off) does not have side effects | | | | |
| Prerequisite | - A SmartSDK application has already been installed  - A SmartSDK application that uses the HDD | | | | |
| No | Test procedure | Test conditions | | Confirmations | |
| 1 | Start the device, and then start the SmartSDK application to be evaluated | The system warm-up is completed, and all installed applications including SmartSDK application icons are running. | |  | |
| 2 | Press the energy saving mode button | Turn the HDD power off | | - Transition to sleep mode is completed and the touch panel is turned off  - After a while, the power LED flashes slowly | |
| 3 | Press the touch panel (to recover from the power-off state) |  | | The Home screen is displayed | |
| 4 | Start an SmartSDK application |  | | - The SmartSDK application screen is properly displayed | |
| 5 | Perform an operation that uses the HDD |  | | Operations continue properly | |

## 2.6. Network Feature Evaluation Procedure (selection items)

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 6-1 | | Test type | | Network |
| Purpose | | Confirm operation after the network setting is changed. | | | | |
| Prerequisite | | - Network card is loaded to the device, and network is set properly.  - SmartSDK application uses network.  - SmartSDK application must be already running. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Operate using network, according to SmartSDK application specifications. | |  | | Confirm that operation is processed properly. | |
| 2 | Enter the configuration mode with the [System Settings] icon.  2) Press the [Interface setting] key, and change the IP address.  3) Press the [Exit] key twice, and exit from the system setting mode.  (Cancel application offline.) | | Change the value of items concerning the SmartSDK application. | | IP address of the device is changed.  (All device IP related settings with the SmartSDK application are changed according SmartSDK application specification.) | |
| 3 | Execute the same operation as Test procedure No.1. | |  | | Confirm that operation is processed properly according SmartSDK application specification. | |

## 2.7. Application Concurrence Evaluation Procedure (requisite items)

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 7-1 | | Test type | | Application concurrence |
| Purpose | | **Confirm that SDK/J Application does not affect Web Image Monitor feature of the device** | | | | |
| Prerequisite | | - Network card is loaded to the device, and network is set properly.  - Test target device and client PC for test is placed in the same segment.  - SmartSDK application is in operational state. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | |  | | SmartSDK application screen is visible. | |
| 2 | Startup Web browser with client PC for test. | | Have proxy server setting of Web browser in either of the below.  - Set to not use proxy  - Do not use proxy server for local address. | | Web browser is started. | |
| 3 | Enter "http://(IP address of test target device)/" to the address.  If IP address of the device is 11.22.33.44, the URL will be as below.  http://11.22.33.44/ | | When the SmartSDK application is the screen owner in test target machine | | Confirm that the state of the specified device is correctly displayed on Web browser | |
|  |  | | When the SmartSDK application is NOT the screen owner in test target machine | | Confirm that the state of the specified device is correctly displayed on Web browser | |

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 7-2 | | Test type | | Application concurrence |
| Purpose | | **Confirm that SDK/J Application does not affect SNMP feature of the device** | | | | |
| Prerequisite | | - Network card is loaded to the device, and network is set properly.  - Test target device and client PC for test is placed in the same segment.  - SmartSDK application is in operational state. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | |  | | SmartSDK application screen is visible. | |
| 2 | Display the printer list on the clientPC. | | An appropriate printer driver is installed on the test PC and configured to the test target device. | | Target printer is visible in [Printer] folder with device status. | |
| 3 | Open print queue monitor and confirm the SNMP status of the device on top status information line. | | When the SmartSDK application is the screen owner in test target machine | | Confirm the configuration of the target device is displayed correctly. | |
|  |  | | When the SmartSDK application is NOT the screen owner in test target machine | | Confirm the configuration of the target device is displayed correctly. | |

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 7-3 | | Test type | | Application concurrence |
| Purpose | | **Confirm that SmartSDK Application does not affect ftp feature of the device** | | | | |
| Prerequisite | | - Network card is loaded to the device, and network is set properly.  - Test target device and client PC for test is placed in the same segment.  - SmartSDK application is in operational state. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | |  | | SmartSDK application screen is visible. | |
| 2 | On the test client PC, display command prompt, by selecting the menu in the order of [Start], [Program], [Accessory]. | |  | | CMD/Command window is active on the PC. | |
| 3 | On the test client PC, change the current directory to the directory that includes the test file for ftp print. | | Test file is a text file with only half size font alphabets. | | Prompt is showing target path/directory. | |
| 4 | Specify IP address of test target device, and start ftp command.  > ftp [IP address] | |  | | Command is shown as executed in CMD/Command prompt. | |
| 5 | In a client computer for testing,  press the return key after entering the followings:  User name: admin  Password:Enter nothing  Here, if login is properly executed, the below prompt is displayed to enter a command  ftp> | |  | | Ftp command connects the device.  Ftp prompt is visible. | |
| 6 | On the test client PC, transfer the test file to ftp print.  Ex. Enter as shown below (replace "test.txt" with the test file name)  ftp>put test.txt filetype=R00  “filetype=R00” may not be necessary. | | When the SmartSDK application is the screen owner in test target machine | | Confirm that the content of the test file is printed correctly | |
|  |  | | When the SmartSDK application is NOT the screen owner in test target machine | | Confirm that the content of the test file is printed correctly | |
| 7 | On the test client PC, exit ftp with “bye” command, and exit command prompt. | |  | | Ftp is exit successfully. | |

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 7-4 | | Test type | | Application concurrence |
| Purpose | | **Confirm that SDK/J Application does not affect the feature to store** image from client PC on the Document Server of the MFD | | | | |
| Prerequisite | | - Network card is loaded to the device, and network is set properly.  - Test target device and client PC for test is placed in the same segment.  - SmartSDK application is in operational state. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | |  | | SmartSDK application screen is visible. | |
| 2 | Startup NotePad in client PC for test, and open a document file. | |  | | A Window with a NotePad document is open on the test PC. | |
| 3 | Select Print from the menu of the NotePad. | |  | | NotePad print menu is visible. | |
| 4 | 1) Set general tab in print dialog.  2) Set basic tab in print dialog. | | - Select test target device in the printer list of the general tab.  - Have the printing strategy of basic tab as "Store in Document Server". | | - Target printer is selected in general tab of NotePad print menu.  - “Document Server” is selected under Job Type menu of the Basic Tab of Printing Preferences. | |
| 5 | Execute print of notepad | | When the SmartSDK application is the screen owner in test target machine | | Confirm that the document opened with NotePad is stored in Document Server. | |
|  |  | | When the SmartSDK application is NOT the screen owner in test target machine | | Confirm that the document opened with NotePad is stored in Document Server. | |
| 6 | Print the storage document of test target machine by Document Server, and confirm the content | |  | | Confirm that the storage document is printed correctly | |

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 7-5 **< Implementation omitted >** | | Test type | | Application concurrence |
| Purpose | | **Confirm that SDK/J Application does not affect net file feature of the device** | | | | |
| Prerequisite | | - Network card is loaded to the device, and network is set properly.  - Test target device and client PC for test is placed in the same segment.  - DeskTopBinder Lite/Ridoc Desk Navigator Lt V1 ( or Ridoc Desk2000 Lt(\*)) is installed to the client PC for test.  - Some images are stored in the Document Server of test target device.  - SmartSDK application is operational state. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | |  | | SmartSDK application screen is visible. | |
| 2 | Startup DeskTopBinder Lite/Ridoc Desk Navigator Lt V1 in client PC for test. | |  | | DeskTopBinder Lite is started and configured for the target test device. | |
| 3 | Select the Document Server of the test target device in the pane left of DeskTopBinder Lite/Ridoc Desk Navigator Lt V1. | | When the SmartSDK application is the screen owner in test target machine | | Confirm that the list of stored documents is shown and available in the pane right of DeskTopBinder Lite/Ridoc Desk Navigator Lt V1. | |
|  |  | | When the SmartSDK application is NOT the screen owner in test target machine | | Confirm that the list of stored documents is shown and available in the pane right of DeskTopBinder Lite/Ridoc Desk Navigator Lt V1. | |
| 4 | Right click the storage document displayed in the pane right of DeskTopBinder Lite/Ridoc Desk Navigator Lt V1, and print from the displayed menu. | | When the SmartSDK application is the screen owner in test target machine | | Confirm that remote printing is available (if supported by the device) from client PC for test. | |
|  |  | | When the SmartSDK application is NOT the screen owner in test target machine | | Confirm that remote printing is available (if supported by the device) from client PC for test. | |

~~\*2-7-5 The product name of Ridoc Desk Navigator Lt V1 for overseas is DeskTopBinder V2 Lite~~

~~Ridoc Desk Navigator Lt V1, the previously called "Ridoc Desk2000 Lt". (Ridoc Desk2000 Lt is discontinued.)~~

~~For Japan:~~

~~http://support.ricoh.com/bbv2/html/dr\_ut\_d/doc\_sol/history/w/bb/pub\_j/dr\_ut\_d/4101004/4101004170/V1762/5171040/171040/history.htm~~

~~For overseas:~~

~~http://support.ricoh.com/html\_gen/util/DTB/DTB\_R.html~~

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 7-6 | | Test type | | Application concurrence |
| Purpose | | **Confirm that SmartSDK/J Application does not affect LPR print feature of the device** | | | | |
| Prerequisite | | - Network card is loaded to the device, and network is set properly.  - Test target device and client PC for test is placed in the same segment.  - Client PC for test is Windows 7, and printer driver port is LPR mode.  - SmartSDK application is in operational state. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | |  | | SmartSDK application screen is visible. | |
| 2 | Print using LPR port from client PC for test. | | When the SmartSDK application is the screen owner in test target machine | | Confirm the device correctly prints:  - Confirm print by lpd (LPR port). | |
|  |  | | When the SmartSDK application is NOT the screen owner in test target machine | | Confirm the device correctly prints:  - Confirm print by lpd (LPR port). | |

\*2-7-6 Adding LPR port

Windows 7

1) Open [Control Panel], select [Programs], and click [Programs and Features].

2) Open [Printer Folder] and select Printer Properties of target printer driver.

3) In Ports tab select [Configure Port]

4) Select [LPR Port Monitor].

5) Click [OK] and exit the Printer Properties Screen.

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*7-7 **< Implementation omitted >** | | Test type | | Application concurrence and operation under high loaded state |
| Purpose | | **Confirm that SmartSDK application and other concurrently running applications using scanner (copy and scanner type) perform properly in high load.** | | | | |
| Prerequisite | | - SmartSDK application has Scanner feature.  - SmartSDK application is in operational state. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | |  | | SmartSDK application screen is visible. | |
| 2 | Print with SmartSDK application  Start scan with SmartSDK application. | |  | | Confirm that no error occurs in high loaded state. | |
| 3 | While SmartSDK application is using the scanner in Test procedure 2, perform one of the operations below that is available in the target device.  1) In Ridoc Desk Navigator Lt V1/DeskTopBinder Lite (\*), print the data stored in Document Server which includes a lot of images with prior tray.  2) Set the print as "Store to Document Server" in the driver property of client PC for test, and store data with a lot of images.  3) Print with prior tray from client PC for test.  (If possible, print with postscript.)  4) Receive a lot of original by fax, in small letter or micro letter mode.  5) Empty the prior tray, and set the paper of same size in different direction to another paper tray, for rotation limitless print from prior tray. | | Use maximum available originals or image files in test target device for the test.  - It is better to use a document with a lot of images and the small text of different sizes.  - Image setting is for photo and text.  - Use the largest supported original size. For image file, scan this original.  - For color type, use the one with the maximum available colors.  - Refer to the load item list of the attached document, and set so that load is placed to as many places as possible. | | The scanner type job from SmartSDK application is executed and the concurrent operation is executed successfully. No error occurred. | |

~~\*2-7-5 The product name of Ridoc Desk Navigator Lt V1 for overseas is DeskTopBinder V2 Lite~~

~~Ridoc Desk Navigator Lt V1, the previously called "Ridoc Desk2000 Lt". (Ridoc Desk2000 Lt is discontinued.)~~

~~For Japan:~~

~~http://support.ricoh.com/bbv2/html/dr\_ut\_d/doc\_sol/history/w/bb/pub\_j/dr\_ut\_d/4101004/4101004170/V1762/5171040/171040/history.htm~~

~~For overseas:~~

~~http://support.ricoh.com/html\_gen/util/DTB/DTB\_R.html~~

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*7-8 **< Implementation omitted >** | | Test type | | Application concurrence and operation under high loaded state |
| Purpose | | **Confirm that SmartSDK application and other concurrently running applications not using scanner (printer type) perform properly in high load.** | | | | |
| Prerequisite | | - SmartSDK application does not use Scanner (Printer type).  - SmartSDK application is in operational state. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | |  | | SmartSDK application screen is visible. | |
| 2 | Print with SmartSDK application | |  | | Confirm that no error occurs in high loaded state. | |
| 3 | While SmartSDK application is using the printer in Test procedure 2, perform one of the operations below, which is available in the target device.  1) Scan multiple originals that have many colors, and of larger paper size like A3/Double Letter.  2) With Ridoc Desk Navigator Lt V1 (\*2-7-8)/DeskTopBinder Lite, print the data stored in Document Server which includes many images with prior tray.  3) Set the print as "Store to Document Server" in the driver property of client PC for test, and store data with many images.  4) Print with prior tray from client PC for test.  (If possible, print with postscript.)  5) Receive a lot of original by fax, in small letter or micro letter mode.  6) Empty the prior tray, and set the paper of same size in different direction to another paper tray, for rotation limitless print from prior tray. | | Use maximum available originals or image files in test target device for the test.  - It is better to use a document with many images and the small text of different sizes.  - Image setting is for photo and text.  - Use the largest supported original size. For image file, scan this original.  - For color type, use the one with the maximum available colors.  - Refer to the load item list of the attached document, and set so that load is placed to as many places as possible. | | The printer type job from SmartSDK application is executed and the concurrent operation is executed successfully. No error occurred. | |

~~\*2-7-8 The product name of Ridoc Desk Navigator Lt V1 for overseas is DeskTopBinder V2 Lite~~

~~Ridoc Desk Navigator Lt V1, the previously called "Ridoc Desk2000 Lt". (Ridoc Desk2000 Lt is discontinued.)~~

~~For Japan:~~

~~http://support.ricoh.com/bbv2/html/dr\_ut\_d/doc\_sol/history/w/bb/pub\_j/dr\_ut\_d/4101004/4101004170/V1762/5171040/171040/history.htm~~

~~For overseas:~~

~~http://support.ricoh.com/html\_gen/util/DTB/DTB\_R.html~~

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*7-9 | | Test type | | Application concurrence |
| Purpose | | **Confirm that operation using Scanner is unavailable from standard embedded/native application s when SmartSDK application is using Scanner** | | | | |
| Prerequisite | | - SmartSDK application has Scanner feature.  - SmartSDK application is in operational state. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | |  | | SmartSDK application screen is visible. | |
| 2 | Set the original on the DF/ADF, and start the scan with the SmartSDK application. | | Original in DF/ADF has multiple sheets (e.g. 100 sheets) | | Scanning operation is running. | |
| 3 | 1) While the SmartSDK application is scanning the document, press the Home key to switch to the Home screen, and switch to a standard function that can scan. | | Native application using scanner feature is available in Home screen. | | Screen of native application using scanner feature is visible. | |
|  | 2) Start scan operation in the corresponding application. | | Confirm with a standard application that uses the scan operation in the test target machine. | | The SmartSDK application should alert by buzzer or message dialog. Scanning of native application is not possible. | |
| 4 | 1) Wait until scanning of SmartSDK application competes scanning the document.  2) Start scan operation again in the standard/native application. | |  | | Confirm that original native scan is properly started. | |

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*7-10 | | Test type | | Application concurrence |
| Purpose | | Confirm that operation using Printer is possible from standard embedded**/native** applications when SmartSDK application is using Scanner. | | | | |
| Prerequisite | | - SmartSDK application has Scanner feature.  - SmartSDK application is in operational state. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | |  | | SmartSDK application screen is visible. | |
| 2 | Set the original on the DF/ADF, and start the scan with the SmartSDK application. | | Original in DF/ADF has multiple sheets (e.g. 100 sheets) | | Scanning operation is running. | |
| 3 | 1) While the SmartSDK application is scanning the document, press the Home key to switch to the Home screen, and switch to a standard function that can print. | | Native application using printer feature is available in Home screen. | | Screen of native application using printer feature is visible. | |
|  | 2) Start print in the corresponding application. | | Confirm in all standard applications that uses printing operation in the test target machine. | | Print is performed properly. Scan job is executed. | |

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*7-11 | | Test type | | Application concurrence |
| Purpose | | **Confirm that operation using the Scanner is possible from standard embedded/native applications when SmartSDK application is using Printer.** | | | | |
| Prerequisite | | - SmartSDK application has Printer feature.  - SmartSDK application is in operational state. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | |  | | SmartSDK application screen is visible. | |
| 2 | Execute print from the SmartSDK application. | | A multiple pages document should be used (e.g. 200 pages). | | Printing operation is running. | |
| 3 | 1) While the SmartSDK application is printing, press the Home key to switch to the Home screen, and switch to a standard function that can scan. | | Native application using scanner feature is available in Home screen. | | Screen of native application using scanner feature is visible. | |
|  | 2) Start the scan operation in the corresponding application. | | Confirm with a standard application that uses the scan operation in the test target machine. | | Confirm that original native scan is properly started and executed.  Confirm that print job is executed. | |

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*7-12 | | Test type | | Application concurrence |
| Purpose | | **Confirm that operation using the printer is possible from standard embedded/native applications when SmartSDK application is using Printer.** | | | | |
| Prerequisite | | - SmartSDK application has Printer feature.  - SmartSDK application is in operational state. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the SmartSDK application on the screen. | |  | | SmartSDK application screen is visible. | |
| 2 | Execute print from the SmartSDK application. | | A multiple pages document should be used (e.g. 200 pages). | | Printing operation is running. | |
| 3 | 1) While the SmartSDK application is printing, press the Home key to switch to the Home screen, and switch to a standard native function that can print. | | Native application using printer feature is available in Home screen. | | Screen of native application using printer feature is visible. | |
|  | 2) Start print in the corresponding native application. | | Confirm with a standard application that uses printing operation in the test target machine. | | Confirm either the print starts, or the print request is accepted. | |
| 4 | Confirm that print is done properly. | | (Note) According to the load, the period from the completion of first print to the start of next print may differ, so wait fully. | | Confirm that printing is possible and executed with both SmartSDK application and standard embedded/native application. | |

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*7-13 | | Test type | | Application concurrence |
| Purpose | | **Confirm that operation using Scanner is unavailable from SmartSDK applications when standard embedded/native application is using Scanner.** | | | | |
| Prerequisite | | - SmartSDK application has Scanner feature.  - SmartSDK application is in operational state. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the embedded**/native** application that uses the scan feature. | | Confirm in all standard native applications that uses the scan operation in the test target machine. | | Native application screen using scanner feature is visible. | |
| 2 | Set the original on the DF/ADF, and start the scan with the standard native application. | | Original in DF/ADF has multiple sheets (e.g. 100 sheets) | | Scanning operation is running. | |
| 3 | 1) While the standard native application is scanning the document, press the Home key to switch to the Home screen, and switch to the SmartSDK application that scans.  2) Start the scan operation with the SmartSDK application.  Whether the SmartSDK application can start scanning depends on the spec of the native application that is being paused. Test with Quick Copy, Quick Scan, and Quick Fax. | | - Switch applications while the document is being scanned, and try to start a scan.  For remote applications, the application switching step is not applicable. | | - Confirm that SmartSDK application cannot start scanning.  - Confirm that the panel screen displays the message to notify the user that scanning cannot be started. | |
|  | - While Quick Copy is scanning: | | - The SmartSDK application should alert by buzzer or message dialog. | |
|  | - While Quick Scan is scanning: | | - The SmartSDK application should alert by buzzer or message dialog. | |
|  | - While Quick Fax is in scanning: | | - The SmartSDK application should alert by buzzer or message dialog. | |
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| 4 | 1) Wait until standard embedded application completes original scanning.  2) Start the scan operation again with the SmartSDK application. | |  | | Confirm that the SmartSDK application starts the scanning. | |

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*7-14 | | Test type | | Application concurrence |
| Purpose | | **Confirm the SmartSDK application can print while standard embedded/native application is using the scanner.** | | | | |
| Prerequisite | | - SmartSDK application has Printer feature.  - SmartSDK application is in operational state. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the embedded**/native** application that uses the scan feature. | | Confirm with a standard application that uses the scan operation in the test target machine. | | Native scanner screen is visible. | |
| 2 | Set the original on the DF/ADF, and start the scan with the standard native application. | | Original in DF/ADF has multiple sheets (e.g. 100 sheets) | | Scanning operation is running. | |
| 3 | 1) While the standard native application is scanning the document, press the Home key to switch to the Home screen, and switch to the SmartSDK application that prints. | | - Switch applications while the document is being scanned.  For remote applications, the application switching step is not applicable. | | Screen of SmartSDK application is visible. | |
|  |  | | - While the Quick Fax is in operation: | | Pressing the Home key displays an alert message, and switching to other application is rejected. | |
|  | 2) Execute print from the SmartSDK application. | |  | | Confirm that print is done properly. | |

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*7-15 | | Test type | | Application concurrence |
| Purpose | | **Confirm the SmartSDK application can scan while standard embedded/native application is printing.** | | | | |
| Prerequisite | | - SmartSDK application has Scanner feature.  - SmartSDK application is in operational state. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the embedded**/native** application that uses the print feature. | | Confirm in all standard applications that uses printing operation in the test target machine. | | Native printer screen is visible. | |
| 2 | Start printing with the standard native application. | | A multiple pages document should be used (e.g. 200 pages). | | Printing operation is running. | |
| 3 | 1) While a standard native application is printing, press the Home key to switch to the Home screen, and switch to the SmartSDK application that can scan. | | For remote applications, the application switching step is not applicable. | | Screen of SmartSDK application using scanner feature is visible. | |
|  | 2) Start the scan operation with the SmartSDK application. | |  | | Confirm that original scan is properly started. | |

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | \*7-16 | | Test type | | Application concurrence |
| Purpose | | **Confirm the SmartSDK application can print while standard embedded/native application is printing.** | | | | |
| Prerequisite | | - SmartSDK application has Printer feature.  - SmartSDK application is in operational state. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Display the embedded**/native** application that uses the print feature. | | Confirm with a standard application that uses printing operation in the test target machine. | | Native printer screen is visible. | |
| 2 | Start printing with the standard native application. | | A multiple pages document should be used (e.g. 200 pages). | | Printing operation is running. | |
| 3 | 1) While a standard function is printing, press the Home key to switch to the Home screen, and switch to the SmartSDK application that prints. | | For remote applications, the application switching step is not applicable. | | Screen of SmartSDK application using printer feature is visible. | |
|  | 2) Execute print from the SmartSDK application. | |  | | Confirm either the print starts, or the print request is accepted. | |
| 4 | Confirm that print is done properly | | (Note) According to the load, the period from the completion of first print to the start of next print may differ, so wait fully. | | Confirm that printing is possible with both the standard embedded**/native** application and SmartSDK application. | |

## 2.8. Authentication Customization Evaluation Procedure (selection items)

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 8-1 | | Test type | | Authentication Customization |
| Purpose | | Confirm the screen is displayed correctly according to the display control. | | | | |
| Prerequisite | | The authentication customization application is installed.  The device is configured to show the login dialog provided by the authentication customization application.  "All Jobs" is specified for "System Default Settings" - "Administrator Settings" - "Stop Key Print Cancellation Settings" | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Press the Status Check key. | | The login dialog is displayed, and it is the one provided by the authentication customization application. | | The Status Check is displayed. | |
|  | Press the active job in the Status Check. | |  | | The active job tab is displayed. | |
| 2 | Press the "Stop" button | | The login screen for an authentication flow customization application is displayed | | The job cancellation screen is displayed | |

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 8-2 | | Test type | | Authentication Customization |
| Purpose | | User login/logout can be executed | | | | |
| Prerequisite | | An authentication customization application has been installed  An authentication customization application is enabled  Personal authentication is enabled | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Perform the login procedure by a user other than the administrator | | The login screen for an authentication customization application is displayed | | Login can be executed | |
| 2 | Perform the logout procedure | | Login by a user other than the administrator is maintained  Logout is not controlled | | Logout can be executed | |

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 8-3 | | Test type | | Authentication Customization |
| Purpose | | Administrator login/logout can be executed | | | | |
| Prerequisite | | An authentication customization application has been installed  An authentication customization application is enabled | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Perform the login procedure using the machine user's user ID and password | | The login screen for an authentication customization application is displayed | | Login as the machine administrator is executed | |
| 2 | Perform the logout procedure | | Login as a user other than the machine administrator is maintained  Logout is not controlled | | Logout can be executed | |

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 8-4 | | Test type | | Authentication Customization |
| Purpose | | Login to/logout from WebImageMonitor can be executed | | | | |
| Prerequisite | | An authentication customization application has been installed  An authentication customization application is enabled  Personal authentication is enabled  As an authentication customization application, general users' login to WebimageMonitor is supported | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | - From the web browser networked with the MFP, access the WebImageMonitor (http://IP address of test target device), and press the login button to display the login screen  - Log in using the user ID/password of a general user other than the administrator | |  | | Login can be executed. | |
| 2 | Perform the logout procedure from WebImageMonitor | | Using WebImageMonitor, login as a general user other than the administrator is maintained | | Logout can be executed | |

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 8-5 | | Test type | | Authentication Customization |
| Purpose | | Remote login/logout from can be executed | | | | |
| Prerequisite | | An authentication customization application has been installed  An authentication customization application is enabled  Personal authentication is enabled  As an authentication customization application, remote login by general users is supported | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Execute a print job from a computer | | The MFP is connected to the network  Authentication has been enabled for the printer driver installed on the computer networked with the MFP, and the user ID and password of a general user permitted to print have been specified | | A print job is executed | |

## 2.9. Resource Consumption Evaluation Items (requisite items)

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 9-1 | | Test type | | Resource Consumption (Memory) |
| Purpose | | Confirm repeating the screen switching and application switching does not cause the memory leak. | | | | |
| Prerequisite | | - Set the timer values long enough to prevent the timeout during the test. (Ex. The system auto reset timer should be configured not intercepted by timeout.)  - Install the Developer Tool. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Start the SmartSDK application. | | Login if user authentication is effective. | | The SmartSDK application displays as first screen. | |
| 2 | - Press the Home key to switch to the Home screen.  - Start the Developer Tool.  - Set to collect Memory Usage.    - Set the writable SD card in the SD card slot on the left side of the SmartOperation Panel.    - Press the [Start] button to start information collection. | | Device has SD card slot on Smart Operation Panel and supports Developer tool operation. | | Developer Tool is started collecting information on SD card. | |
| 3 | Press the Home key to switch to the Home screen. | |  | | The Home screen is displayed. | |
| 4 | Switch to the SmartSDK application by touching the icon. | |  | | SmartSDK application screen is displayed. | |
| 5 | Repeat the above steps 3- 4, or steps 5-6, or combination of both. | | Repeat at least 50 times.  Repeat as many times as possible to check the memory leak. | | Minimum of 50 operations are executed. | |
| 6 | - Press the Home key to switch to the Home screen.  - Start the Developer Tool.  - Press the [Stop] button to stop the collection | |  | | Verify the memory consumption information stored in the SD card. | |

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| SmartSDK Application Evaluation Procedure | | | | Program name | |  |
| Category number | | 9-2 | | Test type | | Resource Consumption (Memory) |
| Purpose | | Confirm that continuous operation of normal process does not cause memory leak | | | | |
| Prerequisite | | - Set the timer values long enough to prevent the timeout during the test. (Ex. The system auto reset timer should be configured not intercepted by timeout.  - Install the Developer Tool. | | | | |
| No | Test procedure | | Test conditions | | Confirmations | |
| 1 | Start the SmartSDK application. | |  | | The SmartSDK application displays as first screen. | |
| 2 | - Press the Home key to switch to the Home screen.  - Start the Developer Tool.  - Set to collect Memory Usage.  - Set a writable SD card in the SD card slot on the left side of the SmartOperation Panel.  - Press the [Start] button to start information collection. | | Device has SD card slot on Smart Operation Panel and supports Developer tool operation. | | Developer Tool is started collecting information on SD card. | |
| 3 | Operate the SmartSDK application to use as many functions as possible, and repeat the operations. | | Repeat at least 50 times.  Repeat as many times as possible to check the memory leak. | | Minimum of 50 operations are executed. | |
| 4 | - Press the Home key to switch to the Home screen.  - Start the Developer Tool.  - Press the [Stop] button to stop the collection | |  | | Verify the memory consumption information stored in the SD card. | |

# Appendix

## Load item list

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| --- | --- | --- | --- | --- | --- | --- |
| Number | Test items | Resource to load | | | | |
| Scanner  engine | Plotter  engine | CPU | Memory, HDD | Network |
| 1 | Scan multiple originals of many colors and large paper size. | Loaded | - | Loaded | Loaded | - |
| 2 | Fax memory storage transmission | Loaded | - | - | Loaded | - |
| 3 | Receiving a lot of fax in small or detailed text mode | - | Loaded | - | Loaded | - |
| 4 | Thumbnail display with Ridoc Desk Navigator Lt V1 Document Server access | - | - | Loaded | Loaded | - |
| 5 | Print instruction with Ridoc Desk Navigator Lt V1 Document Server access | - | Loaded | - | Loaded | - |
| 6 | Store full color document by print from the client PC. | - | - | Loaded | Highly loaded | Highly loaded |
| 7 | Full color limitless print  (Set for rotation print) | - | Loaded | Highly loaded | Loaded |  |
| 8 | Generate emulation switching. (Print a Postscript file from a client PC<T3/>)) | - | Loaded | Highly loaded | Loaded | Loaded |

# Revision History

|  |  |
| --- | --- |
|  |  |
| Ver. 1.00  2013/12/24 | **Initial Release** |
| Ver.1.01  2014/03/28 | [**1.5 Memory and hard disk process feature evaluation items**](#_1.5._Memory_and)  Add 5-1 – 5-4  [**2.1 Common Evaluation Procedure**](#_2.1._Common_Evaluation)  Modify 1-5 No.8  [**2.3 Scan Feature Related Evaluation Procedure**](#_2.3._Scan_Feature)  Modify 3-5 No.2  Add some notes  [**2.5 Memory and Hard Disk Process feature Related Evaluation Procedure**](#_2.5._Memory_and)  Add 5-1 – 5-4  Modify 5-5, 5-7  [**2.7 Application Concurrence Evaluation Procedure**](#_2.7._Application_Concurrence)  Modify 7-2 No.3 |
| Ver.1.02  2016/03/04 | **Added notes to indicate the tests for remote applications.**  **7-5, 7-7, and 7-8 omitted** |
| Ver.1.03  2016/03/31 | - Added "Declaration of SmartSDK Application to be Evaluated"  - Modified test conditions and confirmations related "Quick Fax" in 7-13  - "1.1. Common Evaluation Items (requisite items)"  Added 1-8, 1-9  - "1.5. Memory and Hard Disk Process Feature Evaluation Items (selection items)"  Added 5-8  - "1.8. Authentication Flow Customization Evaluation Items (selection items)"  Modified 8-1, and Added 8-2 to 8-5 |