

## **Annex (3) Report List**



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Report List	2.3.1		Industrial Design Administration System			
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No	Report ID	Report Type	Related Operation	Report Name in Malay	Report Name in English	Description
1	IDR01010190	Receipt	IDF1	Resit	IDF 1 - Receipt	Payment receipt
2	IDR01050890	Receipt Notice	IDF1	Surat Pemberitahuan Penerimaan Jawapan Kepada Pertanyaan	IDF 1 - Notice of answer to the query received	Reply given to the applicant informing that the answer to the query has been received
3	IDR01050990	Query Letter	IDF1	Surat Permintaan Maklumat Yang Tidak Lengkap	IDF 1 - Query Letter for Application	Only the items to be queried will be listed in the letter
4	IDR01050991	Reminder Letter	IDF1	Surat Peringatan Untuk Tindakan Maklum Balas	IDF 1 - Query Letter remainder	Applicant will be given 14 days to response to the query letter before the application is abandoned
5	IDR01050992	Notice	IDF1	Surat Pemberitahuan Permohonan Terbengkalai	IDF 1 - Notice of the application abandoned	Notice to inform applicant that the application has been abandoned
6	IDR01050993	Refusal Letter	IDF1	Surat Penolakan Pendaftaran	IDF 1 - Notice of registration rejected	Notice to inform the refusal of registration
7	IDR01070890	Notice	IDF1		Answer to Supplement Information Reception	
8	IDR01070990	Notice	IDF1		Notification of Supplement Information	
9	IDR01080890	Notice	IDF1	Surat Pemberitahuan Penerimaan Rayuan	IDF 1 - Notice of appeal letter received	Notice to the applicant that the appeal letter has been received
10	IDR01080891	Receipt Notice	IDF1	Surat Pemberitahuan Penerimaan Keputusan Perbicaraan	IDF 1 - Notice of hearing answer received	Notice to inform the hearing results has been received
11	IDR01080990	Notice	IDF1	Surat Pemberitahuan Permulaan Perbicaraan	IDF 1 - Notice of hearing started	Notice to inform the starting of hearing
12	IDR01080991	Notice	IDF1	Surat Pemberitahuan Penolakan Rayuan	IDF 1 - Notice of appeal rejection	Notice to inform that the appeal has been rejected
13	IDR01080992	Notice	IDF1	Surat Pemberitahuan Kelulusan Rayuan	IDF 1 - Notice of appeal has accepted	Notice to inform that the appeal has been accepted
14	IDR01090990	Gazette	IDF1	Penyiaran Untuk Permohonan Baru	IDF 1 - Gazette for Industrial Design Registration	Gazette on New Application – For publishing of the registration of new design
15	IDR01100990	Certificate	IDF1	Sijil Perakuan Pendaftaran Reka Bentuk Perindustrian	IDF 1 - Certificate for Registration	Certificate for Registration
16	IDR01100991	Cover letter	IDF1	Surat Perakuan Pendaftaran Reka Bentuk Perindustrian	IDF 1 - Covering Letter for Certificate of Registration	Covering Letter for Certificate of Registration of an industrial Design
17	IDR01110890	Withdrawal Letter	IDF1	Surat Penarikan Balik Permohonan	IDF 1 - Notice of withdrawal completed	Notice to inform the acceptance of withdrawal
18	IDR01120990	Letter	IDF1	Surat Permintaan Fi Penyiaran	IDF 1 - Notice of request for gazette fee	Notice to request for gazette fee
19	IDR01120991	Notice	IDF1	Surat Pemberitahuan Bayaran Lengkap Diterima	IDF 1 - Notice of all payment received	Notice to inform all payment has been received
20	IDR02010190	Receipt	IDF2	Resit	IDF 2 - Receipt	Payment receipt

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21	IDR02050890	Notice	IDF2	Surat Pemberitahuan Penerimaan Jawapan Kepada Pertanyaan	IDF 2 - Notice of answer to the query received	Reply given to the applicant informing that the answer to the query has been received
22	IDR02050990	Query letter	IDF2	Surat Permintaan Maklumat Yang Tidak Lengkap Untuk Pelanjutan Tempoh Pendaftaran	IDF 2 - Query Letter for Extension	Only the items to be queried will be listed in the letter
23	IDR02050991	Reminder Letter	IDF2	Surat Peringatan Untuk Tindakan Maklum Balas Ke atas Tempoh Pelanjutan	IDF 2 - Query Letter remainder	Applicant will be given 14 days to response to the query letter before the application is abandoned
24	IDR02050992	Notice	IDF2	Surat Pemberitahuan Permohonan Pelanjutan Tempoh Terbengkalai	IDF 2 - Notice of the request abandoned	Notice to inform applicant that the extension has been abandoned
25	IDR02050993	Notice	IDF2	Surat Penolakan Pelanjutan Tempoh Pendaftaran	IDF 2 - Notice of extension rejected	Notice to inform rejection of extension
26	IDR02090990	Certificate	IDF2	Sijil Perakuan Pelanjutan Tempoh Pendaftaran Reka Bentuk Perindustrian	IDF 2 - Certificate of Extension	Certificate of Extension
27	IDR02090991	Gazette	IDF2	Penyiaran Untuk Pelanjutan Tempoh Pendaftaran	IDF 2 - Gazette for Industrial Design Extension	Gazette on Extension – For publishing of the extension period of registration of design
28	IDR02090992	Cover Letter	IDF2	Surat Perakuan Pelanjutan Tempoh Pendaftaran Reka Bentuk Perindustrian	IDF 2 - Covering Letter for Certificate of Extension	Covering Letter for Certificate of Extension of Period of Registration
29	IDR03010190	Receipt	IDF3	Resit	IDF 3 - Receipt	Payment receipt
30	IDR03050990	Gazette	IDF3	Penyiaran Untuk Permintaan Untuk Kemasukan Semula	IDF 3 - Gazette for notice of intention to restore	Gazette for notice of intention to restore
31	IDR03050991	Notice	IDF3	Surat Penolakan Kemasukan Semula	IDF 3 - Notice of restoration rejected	Notice to inform restoration has been rejected
32	IDR03080890	Receipt Notice	IDF3	Surat Pemberitahuan Penerimaan Rayuan Terhadap Kemasukan Semula	IDF 3 - Notice of appeal letter received	Notice to inform the appeal letter has been received
33	IDR03080891	Receipt Notice	IDF3	Surat Pemberitahuan Penerimaan Keputusan Perbicaraan	IDF 3 - Notice of hearing answer received	Notice to inform the receipt of hearing results
34	IDR03080990	Notice	IDF3	Surat Pemberitahuan Permulaan Perbicaraan	IDF 3 - Notice of hearing started	Notice to inform the start of hearing
35	IDR03080991	Notice	IDF3	Surat Penolakan Terakhir Terhadap Rayuan	IDF 3 - Notice of last rejection for appeal	Notice to inform the last rejection for appeal
36	IDR03080992	Notice	IDF3	Surat Kelulusan Kemasukan Semula	IDF 3 - Notice of restoration accepted	Notice to inform the acceptance of restoration
37	IDR03090990	Letter	IDF3	Surat Permintaan Pelanjutan Tempoh Pendaftaran	IDF 3 - Notice of IDF2 request	Notice to request the extension period of the registration
38	IDR03090991	Gazette	IDF3	Penyiaran Untuk Pendaftaran Yang Luput	IDF 3 - Gazette for Lapse	Gazette for lapse
39	IDR03090992	Gazette	IDF3	Penyiaran Untuk Kemasukan Semula	IDF 3 - Gazette for notice of restoration (KIV)	Gazette for notice of restoration (KIV)
40	IDR04010190	Receipt	IDF4	Resit	IDF 4 - Receipt	Payment receipt

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41	IDR04050990	Notice	IDF4	Notis Kepada Pemilik Terhadap Bangkangan Kemasukan Semula	IDF 4 - Notice of opposition letter received	Notice to Owner there is opposition for the restoration
42	IDR04050991	Receipt Notice	IDF4	Surat Penolakan Terhadap Bangkangan Kemasukan Semula	IDF 4 - Notice of opposition rejected	Reject on Opposition for Restoration
43	IDR04050992	Notice	IDF4	Surat Kelulusan Terhadap Bangkangan Kemasukan Semula	IDF 4 - Notice of opposition accepted	Acceptance on opposition for restoration
44	IDR04080890	Receipt Notice	IDF4	Surat Pemberitahuan Penerimaan Rayuan	IDF 4 - Notice of appeal letter received	Notice to inform the appeal letter has been received
45	IDR04080891	Receipt Notice	IDF4	Surat Pemberitahuan Penerimaan Keputusan Perbicaraan	IDF 4 - Notice of hearing answer received	Notice to inform the receipt of hearing results
46	IDR04080990	Notice	IDF4	Surat Pemberitahuan Permulaan Perbicaraan	IDF 4 - Notice of hearing started	Notice to inform the start of hearing
47	IDR04080991	Notice	IDF4	Surat Penolakan Dari Keputusan Perbicaraan Terhadap Bangkangan Kemasukan Semula	IDF 4 - Notice of appeal rejected	Notice to inform the rejection from hearing results of opposition to restoration
48	IDR04080992	Notice	IDF4	Surat Kelulusan Dari Keputusan Perbicaraan Terhadap Bangkangan Kemasukan Semula	IDF 4 - Notice of appeal accepted	Notice to inform the acceptance from hearing results of opposition to restoration
49	IDR05010190	Receipt	IDF5	Resit	IDF 5 - Receipt	Payment receipt
50	IDR05050990	Recordal of Change	IDF5	Pendaftaran Perpindahan atau Kuatkuasa Undang-Undang Lain	IDF 5 - Recordal of Transmission	Recordal of Transmission
51	IDR05050991	Notice	IDF5	Surat Penolakan Penyerahhakan atau Perpindahan Reka Bentuk Perindustrian	IDF 5 - Notice of assignment / transmission owner rejected	Reject on request for assignment or transmission
52	IDR05050992	Recordal of Change	IDF5	Pendaftaran Penyerahan	IDF 5 - Recordal of Assignment	Recordal of Assignment
53	IDR05050993	Cover Letter	IDF5	Surat Perpindahan atau Kuatkuasa Undang-Undang Lain Kepada Reka Bentuk Perindustrian	IDF 5 - Covering Letter for Recordal of Transmission	Covering Letter for Recordal of Transmission
54	IDR05050994	Cover Letter	IDF5	Surat Penyerahhakan Reka bentuk Perindustrian	IDF 5 - Covering Letter for Recordal of Assignment	Covering Letter for Recordal of Assignment
55	IDR05090990	Gazette	IDF5	Penyiaran Untuk Penyerahhakan, Perpindahan atau Kuat kuasa Undang-undang Lain	IDF 5 - Gazette for assignment / transmission	Gazette for assignment / transmission
56	IDR06010190	Receipt	IDF6	Resit	IDF 6 - Receipt	Payment receipt
57	IDR06050890	Notice	IDF6	Surat Pemberitahuan Penerimaan Bangkangan Terhadap Pembetulan Daftar atau Pembatalan	IDF 6 - Notice of opposition letter received	Notice to owner that the opposition letter has been received
58	IDR06050891	Receipt Notice	IDF6	Surat Pemberitahuan Penerimaan Jawapan Kepada Bangkangan	IDF 6 - Notice of answer to the opposition letter received	Notice to inform the answer to the opposition letter has been received
59	IDR06050990	Notice	IDF6	Notis Kepada Pemilik Terhadap Pembetulan atau Permintaan Untuk Pembatalan	IDF 6 - Notice to Owner (KIV)	Notice to Owner (KIV)
60	IDR06050991	Notice	IDF6	Surat Penolakan Permohonan Bagi Pembetulan Daftar atau Pembatalan Pendaftaran	IDF 6 - Notice of rectification/revocation rejected	Reject on request for rectification or revocation

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61	IDR06050992	Notice	IDF6	Surat Kelulusan Permohonan Bagi Pembetulan Daftar atau Pembatalan Pendaftaran	IDF 6 - Notice of rectification/revocation accepted	Notice on acceptance of request for rectification or revocation
62	IDR06090990	Gazette	IDF6	Penyiaran Untuk Pembetulan daftar atau Pembatalan Pendaftaran	Gazette Request for Rectification or Revocation	
63	IDR07010190	Receipt	IDF7	Resit	IDF 7 - Receipt	Payment receipt
64	IDR07050991	Notice	IDF7	Surat Pemberitahuan Pembekuan Status	IDF 7 - Notice of status freeze	Notice to inform the status has been freeze
65	IDR07120890	Notice	IDF7	Surat Pemberitahuan Penerimaan Salinan Notis Permohonan Kepada Mahkamah	IDF 7 - Notice of court application copy received	Notice to inform the court application copy has been received
66	IDR08010190	Receipt	IDF8	Resit	IDF 8 - Receipt	Payment receipt
67	IDR08050890	Notice	IDF8	Surat Pemberitahuan Perintah Mahkamah	IDF 8 - Notice of the Order of Court	Notice to inform the Order of Court
68	IDR08090990	Gazette	IDF8	Penyiaran Untuk Pembetulan Daftar Dari Perintah Mahkamah	IDF 8 - Gazette on Rectification from the Order of Court	Gazette on Rectification from the Order of Court
69	IDR09010190	Receipt	IDF9	Resit	IDF 9 - Receipt	Payment receipt
70	IDR09050991	Notice	IDF9	Surat Penolakan Pindaan Nama dan Alamat	IDF 9 - Notice of changing name and address reject	Reject application for change of name and address
71	IDR09050992	Recordal of Change	IDF9	Pendaftaran Pindaan Nama	IDF 9 - Recordal of change of name	Recordal of change of name
72	IDR09050993	Recordal of Change	IDF9	Pendaftaran Pindaan Alamat	IDF 9 - Recordal of change of address	Recordal of change of address
73	IDR09050994	Recordal of Change	IDF9	Pendaftaran Pindaan Nama dan Alamat	IDF 9 - Recordal of change of name and address	Recordal of change of name and address
74	IDR09050995	Cover Letter	IDF9	Surat Meminda Nama Reka Bentuk Perindustrian	IDF 9 - Covering Letter for Recordal of change of name	Covering Letter for Recordal of change of name
75	IDR09050996	Cover Letter	IDF9	Surat Meminda Alamat Reka Bentuk Perindustrian	IDF 9 - Covering Letter for Recordal of change of address	Covering Letter for Recordal of change of address
76	IDR09050997	Cover Letter	IDF9	Surat Meminda Nama dan Alamat Reka Bentuk Perindustrian	IDF 9 - Covering Letter for Recordal of change of name and address	Covering Letter for Recordal of change of name and address
77	IDR09090990	Gazette	IDF9	Penyiaran Pindaan Nama dan Alamat	IDF 9 - Gazette for change of name and address	Gazette for change of name and address
78	IDR10010190	Receipt	IDF10	Resit	IDF10 - Receipt	Payment receipt
79	IDR10050990	Recordal of Change	IDF10	Surat Perlantikan atau Pertukaran Ejen dan Pertukaran Alamat Penyampaian	IDF10 - Notice of Appointment / Change of Agent and Address of Service	Notice on Appointment or Change of Agent and Change of Address of Service
80	IDR10050991	Notice	IDF10	Surat Penolakan Perlantikan atau Pertukaran Ejen dan Pertukaran Alamat Penyampaian	IDF10 - Notice of Appointment / Change of Agent and Address of Service rejected	Reject the application for appointment or change of agent and change of address for service

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81	IDR11010190	Receipt	IDF11	Resit	IDF11 - Receipt	Payment receipt
82	IDR11050990	Notice	IDF11	Surat Penolakan Pendaftaran Ejen Reka Bentuk Perindustrian	IDF11 - Notice of application for agent registration	Reject the application for agent registration
83	IDR11100990	Certificate	IDF11	Perakuan Pendaftaran Ejen Reka Bentuk Perindustrian	IDF11 - Registration of Agent	Registration of Agent
84	IDR11100991	Cover Letter	IDF11	Surat Perakuan Pendaftaran Ejen Reka Bentuk Perindustrian	IDF11 - Covering Letter for Registration of Agent	Covering Letter for Registration of Agent
85	IDR12010190	Receipt	IDF12	Resit	IDF12 - Receipt	Payment receipt
86	IDR12100990	Certificate	IDF12	Perakuan Pelanjutan Pendaftaran Ejen Reka Bentuk Perindustrian	IDF12 - Certificate for Extension of Agent	Extension of Agent. The certificate is the same as Registration of Agent
87	IDR12100991	Cover Letter	IDF12	Surat Perakuan bagi Pelanjutan Pendaftaran sebagai Ejen Reka Bentuk Perindustrian	IDF12 - Covering Letter for Extension of Agent	Covering Letter for Extension of Agent
88	IDR13010190	Receipt	IDF13	None	IDF13 - Receipt	Payment receipt
89	IDR13050990	Approval Letter	IDF13	Surat Kelulusan Pelanjutan Masa	IDF13 - Notice of application for extension of time approved	Approve the application for extension of time for 3 month
90	IDR13050991	Notice	IDF13	Surat Penolakan Pelanjutan Masa	IDF13 - Notice of application for extension of time rejected	Reject the application for extension of time
91	IDR14010190	Receipt	IDF14	Resit	IDF14 - Receipt	Payment receipt
92	IDR14100990	Certificate	IDF14	Salinan Permohonan Terperaku	IDF14 - Certified Copy of Design Application	Certified Copy of Design Application
93	IDR14100991	Cover Letter	IDF14	Surat Salinan Permohonan Terperaku	IDF14 - Covering Letter for Certified Copy of Design Application	Covering Letter for Certified Copy of Design Application
94	IDR00111690	Summary	Statistics Report	None	Analysis of Industrial Design Form Received	Analysis of total of each IDF and fees received from local and foreign countries
95	IDR01111691	Summary	Statistics Report	None	Analysis of Designs by Locarno Classification	Analysis of total designs received and granted for each Locarno class from local and foreign countries
96	IDR01111692	Listing	Statistics Report	None	List of Applications of Industrial Design	Daily recording of applications received
97	IDR11111693	Listing	Statistics Report	None	List of Registered Agents	Listing of all agents registered
98	IDR01111694	Summary	Statistics Report	None	Yearly Analysis of Industrial Design Application	Analysis of total of applications received, pending, abandoned / withdrawn / rejected and granted by month and year
99	IDR01111695	Summary	Statistics Report	None	Yearly Analysis of Application by Country	Analysis of total of applications received, pending, granted and abandoned / withdrawn / rejected by country
100	IDR00111696	Summary	Statistics Report	None	Analysis of Application Processed Within Client Charter	Analysis of applications received and processed within the client charter
101	IDR00111697	Summary	Statistics Report	None	Performance Report by Examiner	Analysis of examiners performance
102	IDR00111698	Summary	Statistics Report	None	Performance Report by Data Entry Clerk	Analysis of data entry clerks performance
103	IDR00111699	Listing	Statistics Report	None	List of Applications Under Examination by	List of applications received less than 6 months, due for

## **Annex (4) Report Layout**





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Certification for registration			Many			1

		<i>Supplementary Information</i>
<p><b>AKTA REKA BENTUK PERINDUSTRIAN 1996</b></p> <p><b>PERATURAN-PERATURAN REKA BENTUK PERINDUSTRIAN 1999</b> (Peraturan 20)</p> <div style="border: 1px solid black; width: 300px; height: 40px; margin: 20px auto; text-align: center;">REFERENCE TITLE</div> <div style="border: 1px solid black; width: 300px; height: 100px; margin: 20px auto; text-align: center;">CONTENT</div>		<p>Target Report</p> <p>Certificate of Registration of an Industrial Design (IDR01100990)</p> <p>Certificate of Extension of Period of Registration of an Industrial Design (IDR02090990)</p> <p>Report Title: Font : Arial Size : 12 Type : Bold</p> <p>Others: Font : Arial Size : 11 Type : Normal</p>
		<i>Sorting Order</i>
		None
		<i>Next Page Condition</i>
		None
		<i>Title Output Condition</i>
		As and when it is necessary
		<i>Page Number Condition</i>
		None
<p>.....</p> <div style="border: 1px solid black; width: 150px; height: 30px; margin: 0 auto; text-align: center;">Examiner Name</div> <p>Pendaftar Reka Bentuk Perindustrian Malaysia</p>		

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Certification for agent	Many					2

**PERAKUAN PENDAFTARAN  
EJEN REKA BENTUK PERINDUSTRIAN**

Dengan ini disahkan bahawa, menurut peruntukan Akta Reka Bentuk Perindustrian 1996 dan Peraturan-Peraturan Reka Bentuk Perindustrian 1999, penama yang tersebut di bawah ini telah didaftarkan sebagai Ejen Reka Bentuk Perindustrian sebagaimana butiran berikut :-

Nama Ejen :

Alamat :

No. Daftar Ejen :

Tempoh Pendaftaran :

Di bawah tandatangan saya pada

.....

Pendaftar Reka Bentuk Perindustrian  
Malaysia

*Supplementary Information*

Target Report

Certificate of Registration of Industrial Design Agent (IDR11100990)

Certificate of Extension of Registration of Industrial Design Agent (IDR12100990)

Report Title:

Font : Arial Size : 12 Type : Bold

Others:

Font : Arial Size : 11 Type : Normal

*Sorting Order*

None

*Next Page Condition*

None

*Title Output Condition*

As and when it is necessary

*Page Number Condition*

None

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Certified Copy in Relation to a Design Application	IDR14100990					3

### Certified copy in relation to a Design Application

IN THE MATTER of an application to register, under the provisions of the International Convention for the Protection of Industrial Property, the undermentioned industrial design for which an application to register was made in Malaysia.

I, THE UNDERSIGNED, being an officer authorised to sign and issue certificate on behalf of the Registrar, certify that an application for the Registration of the attached industrial design was made under the Industrial Designs Act 1996 and Industrial Designs Regulations 1999 as follows:-

Designed Application Number :

Total No. of Designs :

Date application filed :

The design claimed to be applied to :

was filed in the name of :

Witness my hand this

.....  
  
 Deputy Registrar of Industrial Designs

#### Supplementary Information

Report Title:  
 Font : Arial Size : 12 Type : Bold

Others:  
 Font : Arial Size : 11 Type : Normal

Sorting Order  
None

Next Page Condition  
None

Title Output Condition  
As and when it is necessary

Page Number Condition  
None

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Cover Letter	Many					4

		Supplementary Information
Rujukan Tuan :	Applicant reference No.	Target Report Registration of Industrial Design Letter (IDR01100991) Extension of Period of Registration of Industrial Design Letter (IDR02090992) Recordal of Transmission Letter (IDR05050993) Recordal of Assignment Letter (IDR05050994) Change of Name of Industrial Design Letter (IDR09050995) Change of Address of Industrial Design Letter (IDR09050996) Change of Name and Address Of Industrial Design Letter (IDR11100991) Registration of Industrial Design Agent Letter (IDR11100991) Extension of Registration of Industrial Design Agent Letter (IDR12100991) Certified copy of Design Application Letter (IDR14100991)
Rujukan Kita	Our Reference No.	
Tarikh :	Current Date	
Addressee Name Addressee Company Name Addressee Address		Report Title: Font : Arial Size : 12 Type : Bold  Others: Font : Arial Size : 11 Type : Normal
Tuan,		Sorting Order
REFERENCE TITLE		None
CONTENT		Next Page Condition
Sekian, terima kasih.		None
"BERKHIDMAT UNTUK NEGARA"		Title Output Condition
Saya yang menurut perintah,		As and when it is necessary
Examiner Name		Page Number Condition
Penolong Pendaftar, Bahagian Reka Bentuk Perindustrian Malaysia s.k.		None
Free Text		

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Gazette on New Application	IDR01090990		5			

		Supplementary Information
<p><b>Registration Number :</b> <input type="text" value="Registration No"/></p> <p><input type="text" value="No of design"/></p> <p><b>Date of Registration :</b> <input type="text" value="Registration Date"/></p> <p><b>Date of Priority :</b> <input type="text" value="Priority Date"/></p> <p><b>Date of Filing :</b> <input type="text" value="Filing Date"/></p> <p><b>Date of Issuance of Certificate :</b> <input type="text" value="IssueDate"/></p> <p><b>Article :</b> <input type="text" value="Article"/></p>		<p><b>Name of Registered Owner :</b> <input type="text" value="Owner Name"/></p> <p><b>Address of Registered: Owner</b> <input type="text" value="Owner Address"/></p> <p><b>Name and address of agent</b> <input type="text" value="Service Address"/></p>
		<p>Report Title: Font : Arial Size : 12 Type : Bold</p> <p>Others: Font : Arial Size : 11 Type : Normal</p>
		<p>Sorting Order</p> <p>None</p>
		<p>Next Page Condition</p> <p>None</p>
		<p>Title Output Condition</p> <p>As and when it is necessary</p>
		<p>Page Number Condition</p> <p>None</p>

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Gazette on Extension of Period of Registration	IDR02090991					6

		Supplementary Information
<b>Registration Number :</b> <input type="text" value="Registration No"/> <input type="text" value="No of design"/>	<b>Period of Registration Extended to Expire :</b> <input type="text" value="Expiry date of Ext"/>	<b>Report Title:</b> Font : Arial Size : 12 Type : Bold  <b>Others:</b> Font : Arial Size : 11 Type : Normal
<b>Date of Registration :</b> <input type="text" value="Registration Date"/>	<b>Articles or set of Articles in Respect of which the Industrial Design is Registered :</b> <input type="text" value="Article"/>	
<b>Registered Name and Address of Owner :</b> <input type="text" value="Owner Name"/> <input type="text" value="Owner Address"/>	<b>Classification :</b> <input type="text" value="Classification"/>	
<b>Period of Extension:</b> <input type="text" value="Period of Ext"/>	<b>Name and Address of Present Agent :</b> <input type="text" value="Agent Name"/> <input type="text" value="Agent Company Name"/> <input type="text" value="Agent Company Address"/>	
		<i>Sorting Order</i>
		None
		<i>Next Page Condition</i>
		None
		<i>Title Output Condition</i>
		As and when it is necessary
		<i>Page Number Condition</i>
		None

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Gazette for Lapse of Registration Gazette for Intention to Restore Gazette for Notice of Restoration Gazette for Rectification or Revocation of Registration		Many				7

<b>Registration No</b>	<b>Application No.</b>	<b>Owner</b>	<b>Expired Date</b>	<i>Supplementary Information</i>	
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				As and when it is necessary	
				<i>Page Number Condition</i>	
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<i>Document Name</i>	<i>Chapter in SDS</i>	<i>Project Name</i>	<i>System Name</i>	<i>Doc. Version</i>	<i>Update Date</i>	<i>Author</i>
Report Layout	2.3.2		Industrial Design Administration System			
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Gazette for Assignment or Transmission		IDR05090990				8

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					<i>Page Number Condition</i>	
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[Registration No]	[Previous Owner Name + Address]	[Owner Name + Address]	[Assignment date]

Document Name	Chapter in SDS	Project Name	System Name	Doc. Version	Update Date	Author
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Payment Receipt (For IDF 01 to IDF14 except IDF07)		Many				9



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**Official Receipt**

**Date :** [Current Date]                      **Time :** [Current Time]

**Receipt No. :** [Receipt No]

**Name :** [Issue name]

**Application No :** [Application No]

[Form]                      [Amount]  
 [Form]                      [Amount]

.

**Total :**                      [Total Amount]

**Cheque No :** [Cheque No] [Bank Name]  
 [Cheque No] [Bank Name]

.

**Thank You**

*Supplementary Information*

Target Report

- IDR01010190
- IDR02010190
- IDR03010190
- IDR04010190
- IDR05010190
- IDR06010190
- IDR08010190
- IDR09010190
- IDR10010190
- IDR11010190
- IDR12010190
- IDR13010190
- IDR14010190

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Others:  
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*Sorting Order*

None

*Next Page Condition*

None

*Title Output Condition*

As and when it is necessary

*Page Number Condition*

None

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Standard Letter	Many		11			

		Supplementary Information			
Rujukan Tuan :	Applicant reference No.	Target Reports Request for Incomplete Information Letter (IDR01050990) Request for Incomplete Information for Period Extension of Registration (IDR02050990) Reminder on Response to Query Letter (IDR01050991) Reminder on Response to Query on Period Extension Letter (IDR02050991) Refusal of Registration Letter (IDR01050993) Withdrawal of Application Letter (IDR01110890) Approval of Extension of Time Letter (IDR13050990)			
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Addressee Company Name					
Addressee Address					
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Examiner Name					
Penolong Pendaftar, Bahagian Reka Bentuk Perindustrian Malaysia Tel No. : Emel :		Page Number Condition None			
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Examiner Tel No					
Examiner Email					
Free Text					

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Analysis of Industrial Design Form Received		IDR00111690				12

Report ID: IDR00111690

Date: <DD-MM-YYYY>

**Analysis of Industrial Design Form Received  
From <DD-MM-YYYY> To <DD-MM-YYYY>**

IDF	No of IDF		Total No of IDF	Amount (RM)		Total Amount (RM)
	Local	Foreign		Local (RM)	Foreign (RM)	
IDF1	80	32	112			
IDF2	56	23	79			
IDF3	3	2	5			
IDF13						
IDF14						
Grand Total						

Page 1 of 1

*Supplementary Information*

Report Title:  
Font : Arial Size : 10 Type : Bold

Others:  
Font : Arial Size : 9 Type : Bold (Column Header), Normal (Others)

Input Parameter:  
Starting date – End date

Note: Need to take into consideration of multiple country

*Sorting Order*

1. Ascending Order By IDF

*Next Page Condition*

None

*Title Output Condition*

As and when it is necessary

*Page Number Condition*

None

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Report Layout	2.3.2		Industrial Design Administration System			
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Analysis of Designs by Locarno Classification		IDR01111691				13

<b>Report ID: IDR01111691</b>				<b>Date: &lt;DD-MM-YYYY&gt;</b>		<i>Supplementary Information</i>	
<b>Analysis of Designs by Locarno Classification</b>						Report Title: Font : Arial Size : 10 Type : Bold	
Month: June    Year: 2002						Others: Font : Arial Size : 9 Type : Bold (Column Header), Normal (Others)	
Locarno Classification	No of Designs Received		Total No of Designs Received	No of Designs Granted		Total No of Designs Granted	Input Parameter Month – Year
	Local	Foreign		Local	Foreign		
01							
02							
03							
04							
Grand Total							
<b>Page 1 of 1</b>							
<i>Sorting Order</i>							
1. Ascending Order By Locarno Classification							
<i>Next Page Condition</i>							
None							
<i>Title Output Condition</i>							
Monthly							
<i>Page Number Condition</i>							
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Report Layout	2.3.2		Industrial Design Administration System			
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List of Applications of Industrial Design		IDR0111692				14

<b>Report ID: IDR0111692</b>							<b>Date: &lt;DD-MM-YYYY&gt;</b>			<i>Supplementary Information</i>	
<b>List of Applications of Industrial Design</b> <b>From &lt;DD-MM-YYYY&gt; To &lt;DD-MM-YYYY&gt;</b>							Report Title: Font : Arial Size : 10 Type : Bold  Others: Font : Arial Size : 9 Type : Bold (Column Header), Normal (Others)  Input Parameter Starting date – End date				
No.	Date	Application No	Class	Name and Address	Service Address	Country	Registration Date	Date of Certificate Issued	Gazette date		
1.	16-09-03	03-00581-01	09-03	Societe Des products Nestle S.A, 1800 Vevey, Switzerland	Advanz Fidelis	Switzerland					
<b>Page 1 of 1</b>							<i>Sorting Order</i> 1. Ascending Order By Date 2. Ascending Order By Application No.				
							<i>Next Page Condition</i> None				
							<i>Title Output Condition</i> As and when it is necessary				
							<i>Page Number Condition</i> None				

<i>Document Name</i>	<i>Chapter in SDS</i>	<i>Project Name</i>	<i>System Name</i>	<i>Doc. Version</i>	<i>Update Date</i>	<i>Author</i>
Report Layout	2.3.2		Industrial Design Administration System			
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List of Registered Agents		IDR11111693				15

<b>Report ID: IDR11111693</b>		<b>Date: &lt;DD-MM-YYYY&gt;</b>		<i>Supplementary Information</i>	
<b>List of Registered Agents</b> <b>From &lt;MM-YYYY&gt; To &lt;MM-YYYY&gt;</b>				Report Title: Font : Arial Size : 10 Type : Bold	
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				<i>Title Output Condition</i>	
				Monthly	
				<i>Page Number Condition</i>	
				None	

No.	Date	Reference No	Agent Name	Address	Agent No	Date of Certificate Issued	Agent Status
1.	01-Sep-99	SD/PAT/851816/VLK/HD	Dato VL Kandan	Shearn Delamore & Co, 7th floor	ERP/99/0001	10-03-00	

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Report Layout	2.3.2		Industrial Design Administration System			
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Yearly Analysis of Industrial Design Application		IDR01111694				16

<b>Report ID: IDR01111694</b>										<b>Date: &lt;DD-MM-YYYY&gt;</b>			<i>Supplementary Information</i>		
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Month	No of Application Received		Total No of Application Received	No of Pending Application		Total No of Pending Application	No of Abandoned/Withdrawn/Rejected Application		Total No of Abandoned/Withdrawn/Rejected Application	No of Application Granted		Total No of Application Granted	Input Parameter Year		
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Jan	234	533	767	197	513	710	57						<i>Sorting Order</i> 1. Ascending Order By Year and Month		
Dec													<i>Next Page Condition</i> None		
Grand Total													<i>Title Output Condition</i> Monthly		
<b>Page 1 of 1</b>													<i>Page Number Condition</i> None		

<i>Document Name</i>	<i>Chapter in SDS</i>	<i>Project Name</i>	<i>System Name</i>	<i>Doc. Version</i>	<i>Update Date</i>	<i>Author</i>
Report Layout	2.3.2		Industrial Design Administration System			
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Yearly Analysis of Application by Country		IDR01111695				17

<b>Report ID: IDR01111695</b>		<b>Date: &lt;DD-MM-YYYY&gt;</b>		<i>Supplementary Information</i>																																												
<b>Yearly Analysis of Application by Country</b>		<b>Year:</b>		Report Title: Font : Arial Size : 10 Type : Bold																																												
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Country	No of Received Applications	%	No of Pending Applications	%	No of Granted Applications	%	No of Abandoned/Withdrawned/Rejected Applications	%																																								
Japan																																																
Malaysia																																																
Multiple Country																																																
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<p style="text-align: center;"><b>Page 1 of 1</b></p>				Input Parameter Year																																												
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<i>Document Name</i>	<i>Chapter in SDS</i>	<i>Project Name</i>	<i>System Name</i>	<i>Doc. Version</i>	<i>Update Date</i>	<i>Author</i>
Report Layout	2.3.2		Industrial Design Administration System			
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Analysis of Application Processed Within Client Charter		IDR00111696				18

Report ID: IDR00111696

Date: <DD-MM-YYYY>

**Analysis of Application Processed Within Client Charter as at <Month YYYY>**

Perkhidmatan	Baki Bulan Lepas	Jumlah Permohonan diTerima	Bil diProses Mengikut Piagam	Bil diProses melebihi tempoh piagam	Bil dibawa ke bulan berikutnya
Mengeluarkan sijil pendaftaran RBP 8 bulan dari tarikh permohonan diterima					
Mengeluarkan sijil penlanjutan RBP bagi pendaftaran 14 hari dari tarikh bayaran diterima					
Mengeluarkan pemberitahuan pertukaran nama dan alamat yang lengkap 7 hari dari tarikh bayaran diterima					
Mengeluarkan sijil perakuan pendaftaran ejen reka bentuk perindustrian 14 hari dari tarikh permohonan diterima					

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*Supplementary Information*

Report Title:  
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Input Parameter  
Month and Year

*Sorting Order*

None

*Next Page Condition*

None

*Title Output Condition*

Monthly

*Page Number Condition*

None

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Performance Report by Examiner		IDR00111697				19

<b>Report ID: IDR00111697</b>					<b>Date: &lt;DD-MM-YYYY&gt;</b>	
<b>Performance Report by Examiner From &lt;DD-MM-YYYY&gt; To DD-MM-YYYY&gt;</b>						
					<i>Supplementary Information</i>	
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					Input Parameter Starting date – End date	
					<i>Sorting Order</i>	
					1. Ascending Order By Examiner Name	
					<i>Next Page Condition</i>	
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					<i>Title Output Condition</i>	
					As and when it is necessary	
					<i>Page Number Condition</i>	
					None	

Examiner Name	No of Application Received	No of Pending Application	No of Granted Application	No of Letters Issued
Exam. A				
Exam. B				
Exam. C				

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<b>Report Layout</b>	<b>2.3.2</b>		<b>Industrial Design Administration System</b>			
<i>Report Name</i>		<i>Report ID</i>				<i>Page</i>
<b>Performance Report by Data Entry Clerk</b>		<b>IDR00111698</b>				<b>20</b>

**Report ID: IDR00111698**

**Date: <DD-MM-YYYY>**

**Performance Report by Data Entry Clerk From <DD-MM-YYYY>**

<b>Data Entry Clerk Name</b>	<b>No of Application/Request Received</b>	<b>No of Pending Application/Request</b>	<b>No of Application/Request Completed</b>	<b>No of Application/Request Returned</b>
Data Entry A				
Data Entry B				
Data Entry C				

**Page 1 of 1**

*Supplementary Information*

Report Title:  
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Input Parameter  
Starting date

*Sorting Order*

1. Ascending Order By Data Entry Clerk Name

*Next Page Condition*

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*Title Output Condition*

As and when it is necessary

*Page Number Condition*

None

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<b>Report ID: IDR00111699</b>				<b>Date: &lt;DD-MM-YYYY&gt;</b>				<i>Supplementary Information</i>	
<b>List of Applications Under Examination by Examiner</b>								Report Title: Font : Arial Size : 10 Type : Bold	
<b>Examiner Name:</b>								Others: Font : Arial Size : 9 Type : Bold (Column Header), Normal (Others)	
								Input Parameter Examiner name	
<b>No.</b>	<b>Date of Filing</b>	<b>Application No</b>	<b>Applicant Name</b>	<b>Received Less than 6 month</b>	<b>Certificate Due for Printing</b>	<b>Gazette Due for Printing</b>	<b>Due to Expire</b>		
1.	23-10-2003	03-00581	Societe Des products Nestle	X					
				X					
				X					
<b>Page 1 of 1</b>								<i>Sorting Order</i>	
								1. Ascending Order By Examiner Name 2. Ascending Order By Date of Filing	
								<i>Next Page Condition</i>	
								None	
								<i>Title Output Condition</i>	
								As and when it is necessary	
								<i>Page Number Condition</i>	
								None	

## **Annex (5) Backup Recovery Design**





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Backup Recovery Design	2.6.1		Industrial Design Administration System				1

This section defines the Backup and Recovery procedures for the Industrial Designs Administration System (IDAS) taking into account its criticality, operation schedule and the operating environment.

### **Backup Consideration**

- **Backup Objective**

Backups are minimal requirements for preventive maintenance for computer systems. Backups are to prevent extensive loss of data in case of unexpected problems such as hardware failures, software errors and operational mistakes. It is therefore, necessary to backup all software and data elements for use when such incidents occur.

- **Basic Backup Consideration**

There are four basic considerations for IDAS:

- 1) Recovery of user data back to the last backup
- 2) To automate the procedures as much as possible.
- 3) To decide on the backup procedure which will ease the recovery operation.
- 4) To decide on the backup procedure which does not disturb the work operation.

- **Backup Design Points**

This section explains the Backup Design Points of the system.

- **Backup Components**

There are two components which have to be backed up:

- 1) System resources  
Operating system and software product.
- 2) User data
  - a) IDAS Application
  - b) Data which are created by users and reside on the File Server and Database Server.

- **Backup Frequency**

For each component, the backup frequency is different.

- 1) System resources and the software product  
These components in essence will only be required to be backed up when patches or upgrades have been applied so as to have a copy of the enhanced or corrected version, hence System Resources backup will be unscheduled.
- 2) User data  
The databases will probably be in constant use during normal office hours. With consideration of cost the number of application per day, real-time backup will not be employed, hence User data will be incrementally backed up once per day and fully backed up at the end of week.

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Backup Recovery Design	2.6.1		Industrial Design Administration System				2

### Backup methods

There are two types of backup methods, namely, "Full backup" and "Incremental backup".

In Full backup, the whole object is backed up. The advantages of this method are ease of specifying backup scope and simplicity of recovery operation. However, this method will incur a greater amount of backup media and time.

In Incremental backup, only the updated portion of an object since the previous Incremental backup is backed up. The advantage of this method is that it will incur much less backup media and time. However the recovery operation is more complicated since the Incremental backup data will need to be restored in chronological order after restoring the Full backup data.

IDAS will recommend Full backup for System Resources and a combination of Full backup and Incremental backup for User Data. Full backup is executed once per week, and Incremental backup is executed once per day for User Data.

### Backup Media

Digital Data Storage (DDS) and Linear Tape Open (LTO) will be used for the backups.

DDS will be used for WWW Server and Application Server whilst the LTO will be used for DB Server and File Server.

It is recommended that backup media be stored off-site at a different location.

### For DB Server and File Server

Backup media should be prepared enough so that data will be recovered to the full backup day nearest to the last day of month within six months. IDAS assumes six months of backup is appropriate as considered the cost of backup media and data usage.

e.g. if the last day of month is 30th and it is Wednesday, system can be recovered to 2nd day of next month. If the last day of month is 30th and it is Sunday, system can be recovered to 28th of this month.

Mon.	Tue.	Wed.	Thur.	Fri.	Sat.	Sun.
21	22	23	24	25	26	27
28	29	30	1	2	3	4
5	6	7	8	9	10	11

\* In this case, the system can be recovered to 2nd.

Mon.	Tue.	Wed.	Thur.	Fri.	Sat.	Sun.
24	25	26	27	28	29	30
1	2	3	4	5	6	7

\* In this case, the system can be recovered to 28th.

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With consideration of cost of the media, two media will be used for Incremental Backup and total of 11 media (1 for the first full backup, 2 for incremental backup, 2 for weekly full backup and 6 for monthly full backup) will be necessary for DB Server and File Server.

#### **For Application Server and WWW Server**

Necessary number of DDS media should be prepared for backup of each Application Server and WWW Server. Backup Frequency is unscheduled, however, IDAS will recommend to backup Application Server and WWW Server at least every 3 months.

#### **Summary**

The following is the summary of the terms used above: -

- 1) Backup Objects : System Resources, User Data
- 2) Backup Frequency : Unscheduled for System Resources, Once a day for User Data
- 3) Backup Media : DDS and LTO
- 4) Backup Schedule : After work operation closes
- 5) Backup Machine : Application Server, WWW Server, DB Server, File Server (Windows 2003 Server)
- 6) Backup Method : Full backup for System Resources, and a combination of Full backup and Incremental Backup for User Data

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### Backup Procedures

- **The servers to be backed up**

Backup is executed for each server. A total of four servers will need to be backed up. The different types of servers are as follows:

- 1) Application Server
- 2) WWW Server
- 3) DB Server
- 4) File Server

- **Backup components of IDAS**

1) Backup components of the Application Server are shown below.

Object Type	Backup Object	Description
System Resource	OS(Windows 2003 Server)	All Files
		Windows 2003 Server Registry
	software product	Program Module
		Setting File
User data	IDAS Application (Java Application)	Program Module

2) Backup components of the WWW Server are shown below.

Object Type	Backup Object	Description
System Resource	OS(Windows 2003 Server)	All Files
		Windows 2003 Server Registry
	software product	Program Module
		Setting File
User data	IDAS Application (HTML)	Program Module

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3) Backup components of the DB Server are shown below.

Object Type	Backup Object	Description
System Resource	OS(Windows 2003 Server)	All Files
		Windows 2003 Server Registry
	software product	Program Module Setting File
User data	User created data in Database	Industrial Design image files Industrial Design data

4) Backup components of the File Server are shown below.

Object Type	Backup Object	Description
System Resource	OS(Windows 2003 Server)	All Files
		Windows 2003 Server Registry
	software product	Program Module Setting File
User data	Templates	Templates
	Image File	Application image files

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- **Backup Schedule**

- 1) **Weekly schedule**

The Weekly backup schedule which is used in IDAS is shown below

		Mon	Tue	Wed	Thu	Fri	Sat	Remarks
Application Server	System resource	---	---	---	---	---	---	Unscheduled
	User data	---	---	---	---	---	---	Unscheduled
WWW Server	System resource	---	---	---	---	---	---	Unscheduled
	User data	---	---	---	---	---	---	Unscheduled
DB Server	System resource	---	---	---	---	(Full Backup)	(Full Backup)	
	User data	Incremental Backup	Incremental Backup	Incremental Backup	Incremental Backup	Incremental Backup or Full Backup	(Full Backup)	
File Server	System resource	---	---	---	---	(Full Backup)	(Full Backup)	
	User data	Incremental Backup	Incremental Backup	Incremental Backup	Incremental Backup	Incremental Backup or Full Backup	(Full Backup)	
Backup Server	System resource	---	---	---	---	---	---	Unscheduled
	User data	---	---	---	---	---	---	Unscheduled

#### Schedule for System Resources

Back up for System Resource is only when updated or new patch is released.

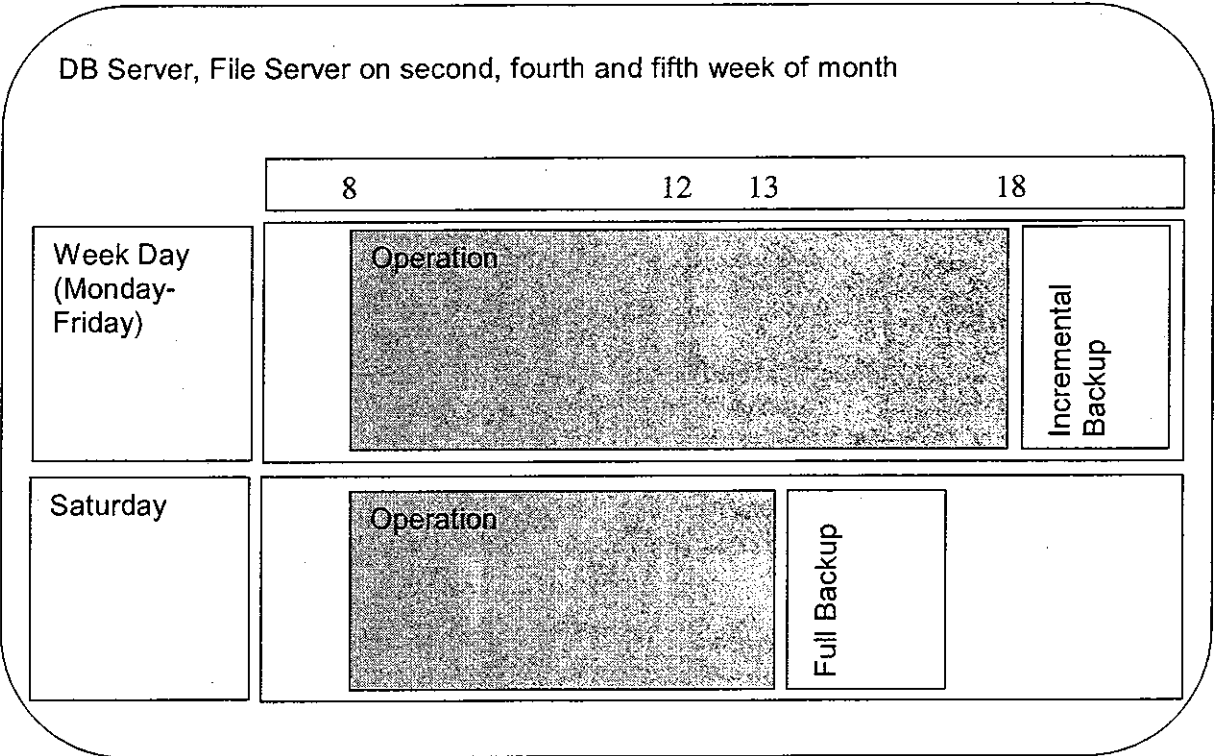
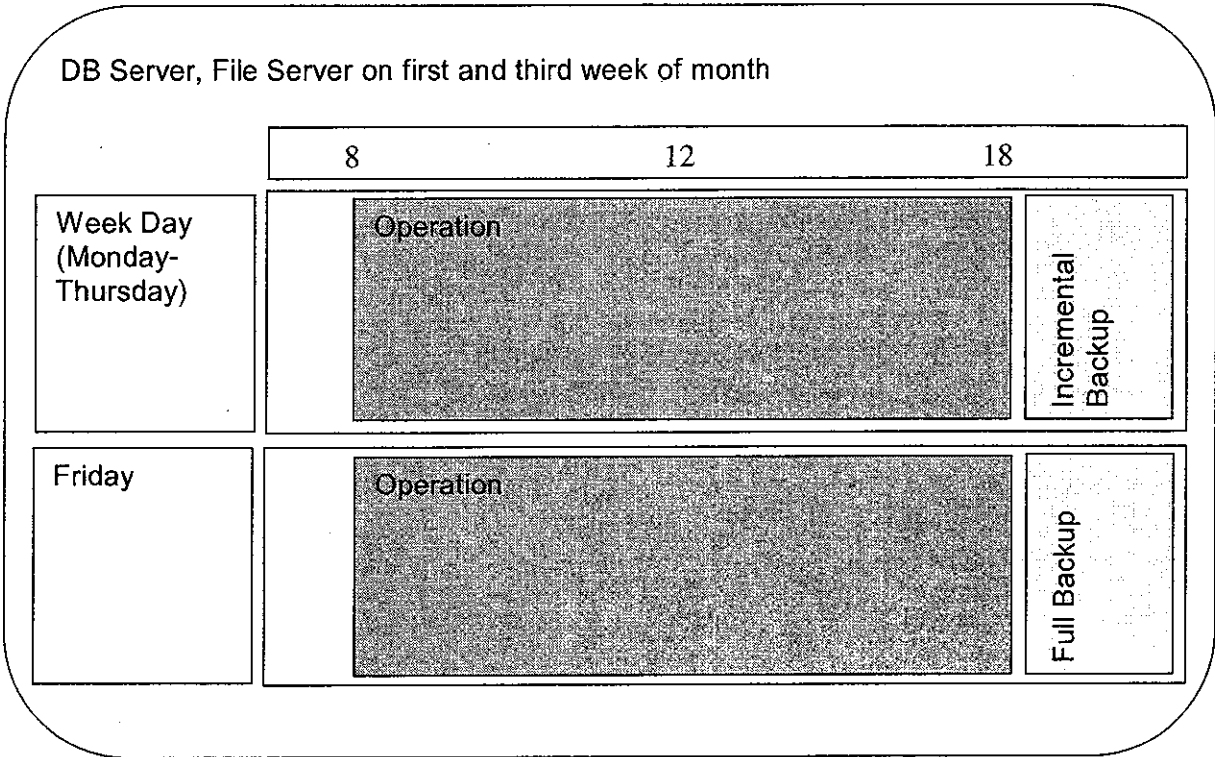
#### Schedule for User Data

Everyday Incremental backup and once per week Full backup are basic for user data (Except for IDAS application itself). Incremental Backup for User Data will be conducted after 18:00 from Monday to Thursday on first and third week of month, whilst from Monday to Friday on second, fourth and fifth week of month. Full Backup for User Data will be conducted after 18:00 on Friday on first and third week of month, and conducted after 13:00 on Saturday on second, fourth and fifth week of month. For Incremental Backup, the same media will be used on Monday, Wednesday and Friday. The other media will be used on Tuesday and Thursday. In the same manner with the daily incremental backup, the same media will be used for the full backup of first, third and fifth week, and the other media will be used full backup of second and fourth week.

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**Daily schedule**

The Daily backup operation schedule which is used on DB Server and File Server in IDAS is shown below.



\* Back up for Application Server and WWW Server is unscheduled

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- **Backup Estimation Time**

This section describes Backup estimation time calculated using technical specification information from Hardware vendors. The time taken for full volume backup (Included System and User Data) is as follows: -

Application Server

HD Volume: 72800M Bytes

Backup Device Spec: 3M Byte / Second \* 1 Drive

Estimate Time =  $72800 / (3 * 1) / 60 / 60$   
= 6.7 Hours

\*Actual usage of hard disk will be around 3 GB. Therefore, backup time will be assumed to be as follows

Estimate Time =  $3000 / (3 * 1) / 60 / 60$   
= 0.8 Hours

- WWW Server

HD Volume: 72800M Bytes

Backup Device Spec: 3M Byte / Second \* 1 Drive

Estimate Time =  $72800 / (3 * 1) / 60 / 60$   
= 6.7 Hours

\*Actual usage of hard disk will be around 3 GB. Therefore, backup time will be assumed to be as follows

Estimate Time =  $3000 / (3 * 1) / 60 / 60$   
= 0.8 Hours

- DB Server

HD Volume: 72800M Bytes

Backup Device Spec: 15M Byte / Second \* 1 Drive

Estimate Time =  $72800 / (15 * 1) / 60 / 60$   
= 1.3 Hours

- File Server

HD Volume: 80000M Bytes

Backup Device Spec: 15M Byte / Second \* 1 Drive

Estimate Time =  $80000 / (15 * 1) / 60 / 60$   
= 1.5 Hours

Note: This is an estimated value therefore it can be different from actual value, which can only be known when the system is operational.

: Estimated time is calculated assuming the whole volume is backed up. The time will be reduced when only the data portion is backed up.



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## Recovery Consideration

- **The objective of recovery**

Recovery is the activity that restores the system or data to its previous condition before the occurrence of unexpected problems such as system crash or data corruption.

- **Basic Recovery Policies**

This section describes the policies of recovery.

### **Recovery of System Resources**

There are two scenarios for the recovery of System Resources

One is the case where the system cannot function because of corrupted environment files or software modules but the OS and backup tool can function properly.

In this case, the files or modules can be recovered from System Resources using backup tool.

The other is the case where the OS and backup tool cannot function because one or both of them is damaged.

In this case, OS and backup tool should be installed in the temporary hard disk and the files or modules can be recovered from System Resources using the backup tool.

### **Recovery of User Data**

User Data is recovered using the following procedure:

1) Restore data from the latest full backup tape.

-> Data is recovered to the last full backup recovery before corruption at this point.

2) After Full backup, restore data using Incremental backup tape.

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## Recovery Procedure

- **Recovery flow chart**

The recovery procedure in the event of system errors occurring is shown below.

- 1) Determine the cause of the error whether it is caused by system file corruption, Disk crash or other factors.
- 2) If it is caused by system file corruption, contact maintenance staff and recover the system. Actions taken will depend on the damaged parts.
  - a) In the case where System data is damaged.
    - Recover Windows 2003 Server (Windows 2003 Server is damaged)
    - Software product other than OS (Software product is damaged)
  - b) In the case where User Data is damaged.
    - Recover DB Software (DB data is damaged)
    - Recover the other files (if damaged)

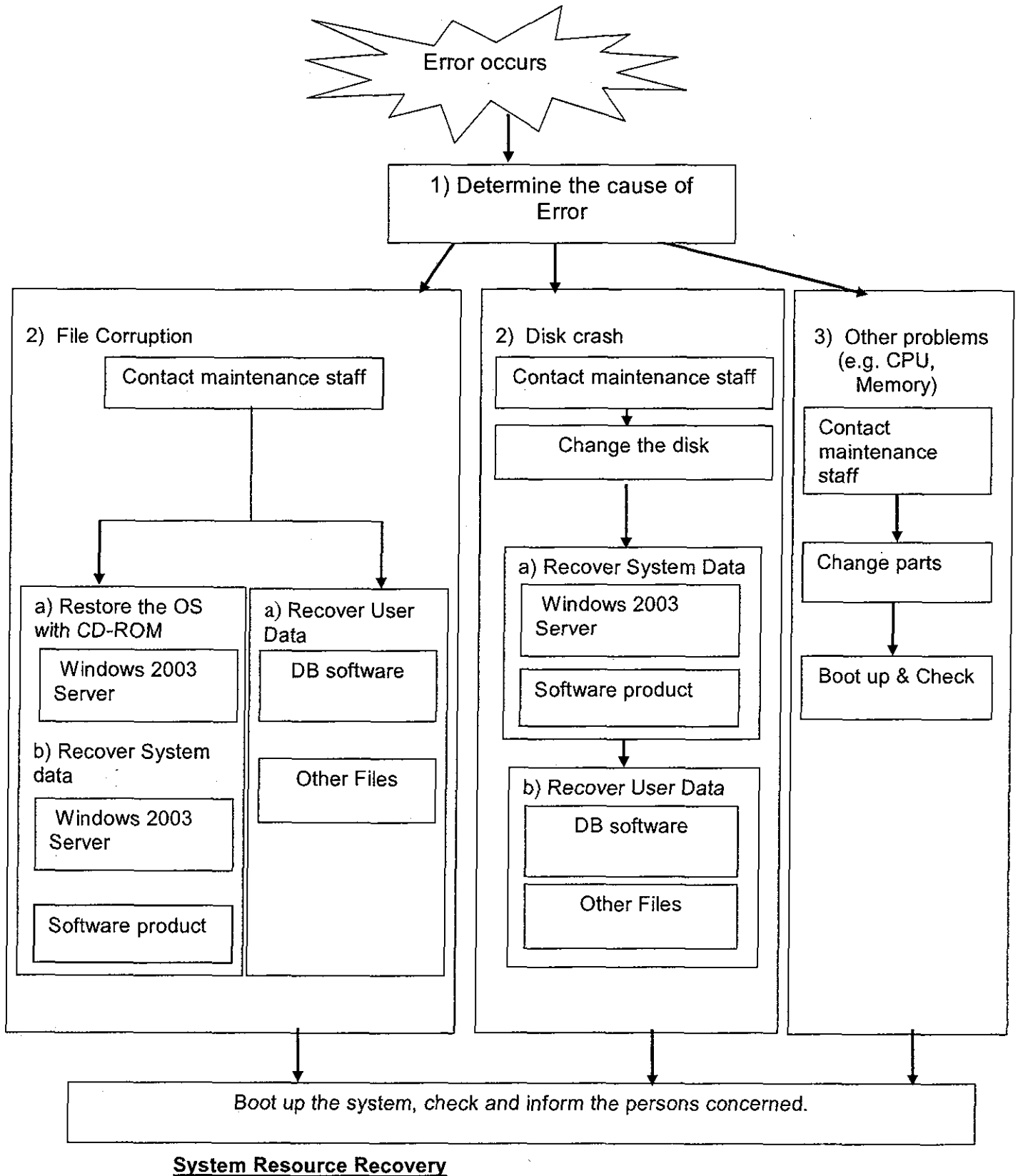
The details are described in the following pages.
- 3) If it is caused by a Disk crash, contact maintenance staff and change the relevant parts. Whole data should be recovered (System Data and User Data).
- 4) If it is caused by other problems such as CPU, Memory, etc., contact maintenance staff, change the relevant parts and boot up the system and check.

\* In case that system crash occurs and the system is recovered during non-office hours, no extra operation is necessary after the recovery. However, if the system crash occurs during office hours, the applications on that day will be handled manually without using the system and the data should be keyed in after system is successfully recovered. As system cannot create the receipt during system crash, blank receipt will be prepared in advance so that receptionist can manually fill in the receipt.

\* In case of system crash, Backup Server can be a substitute for WWW Server, Application Server and DB Server until the recovery procedure is successfully done. The connection between Backup Server and other servers is cold stand-by in consideration of the number of applications and the cost of clustered system. In case that system crash occurs with more than two servers at the same time, system cannot be used. However, even if we assume the utilization rate of the hardware is 95% (usually higher than this), the probability that two servers crash at the same time will be approximately 0.0001%. Furthermore, WWW Server, Application Server and DB Server employ dual CPU, redundant power modules and RAID-5, and File Server and Backup Server employ redundant power modules and RAID-1. Hence, it can be said that there is almost no possibility that system crash occurs with more than two servers at the same time.

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Figure 6-7 Flow chart diagram of Recovery procedure

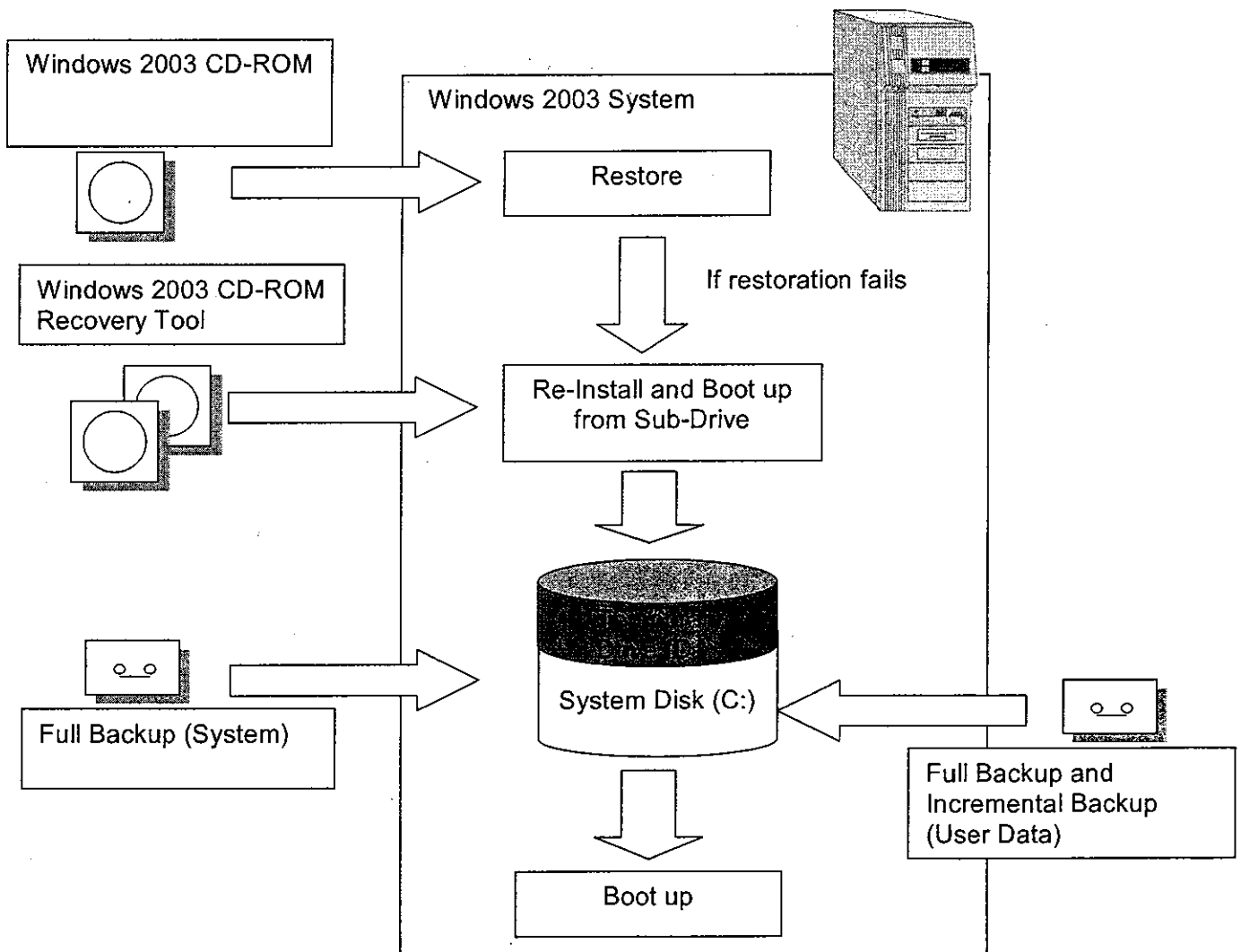


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Backup Recovery Design	2.6.1		Industrial Design Administration System				12

- **Windows 2003 Server and Backup Tool Recovery**

In the case where the Windows 2003 Server or the backup tool is damaged, the recovery procedure is as follows:

- 1) If the problem resides in Windows 2003 Server, use the restore function of OS with using Windows 2003 Server CD-ROM. If the error cannot be solved, the operating system will have to be re-installed.
- 2) Install Windows 2003 Server into the temporary drive
- 3) Install Recovery tool into the temporary drive
- 4) Boot up the system from the temporary drive.
- 5) Recover system files using the latest System Full Backup tape
- 6) Recover registry and setting file
- 7) Boot up the system from the recovered system disk.
- 8) Recover user data using the latest User Data Full Backup tape and Incremental Backup tape
- 9) Boot up the system to check if the recovery is successfully done

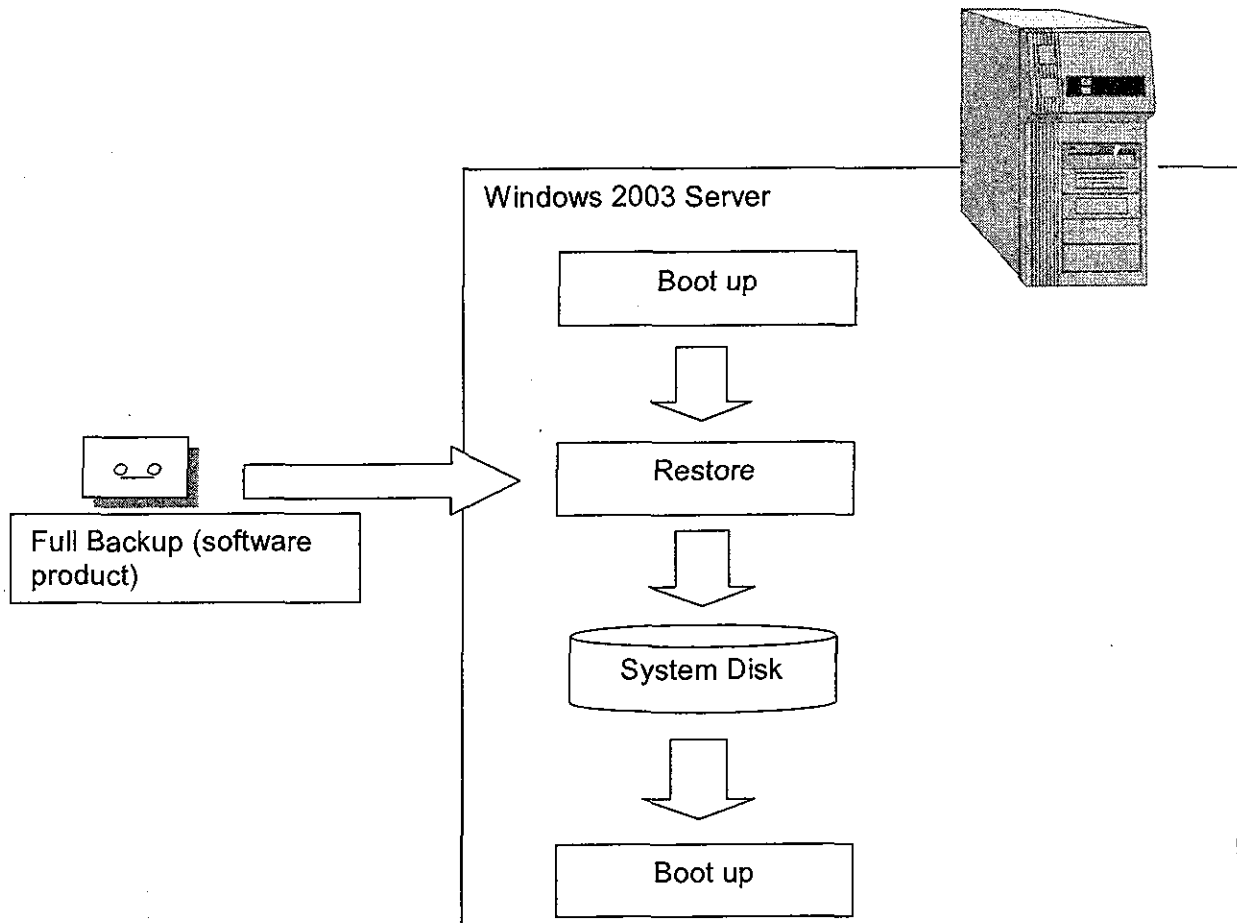


**Software product Recovery**

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In the case where the software product is damaged, the recovery procedure is as follows:

- 1) Boot up the operating system.
- 2) Recover software product using the latest System Full Backup tape
- 3) Recover registry and setting file
- 4) Boot up the system to check if the recovery is successfully done



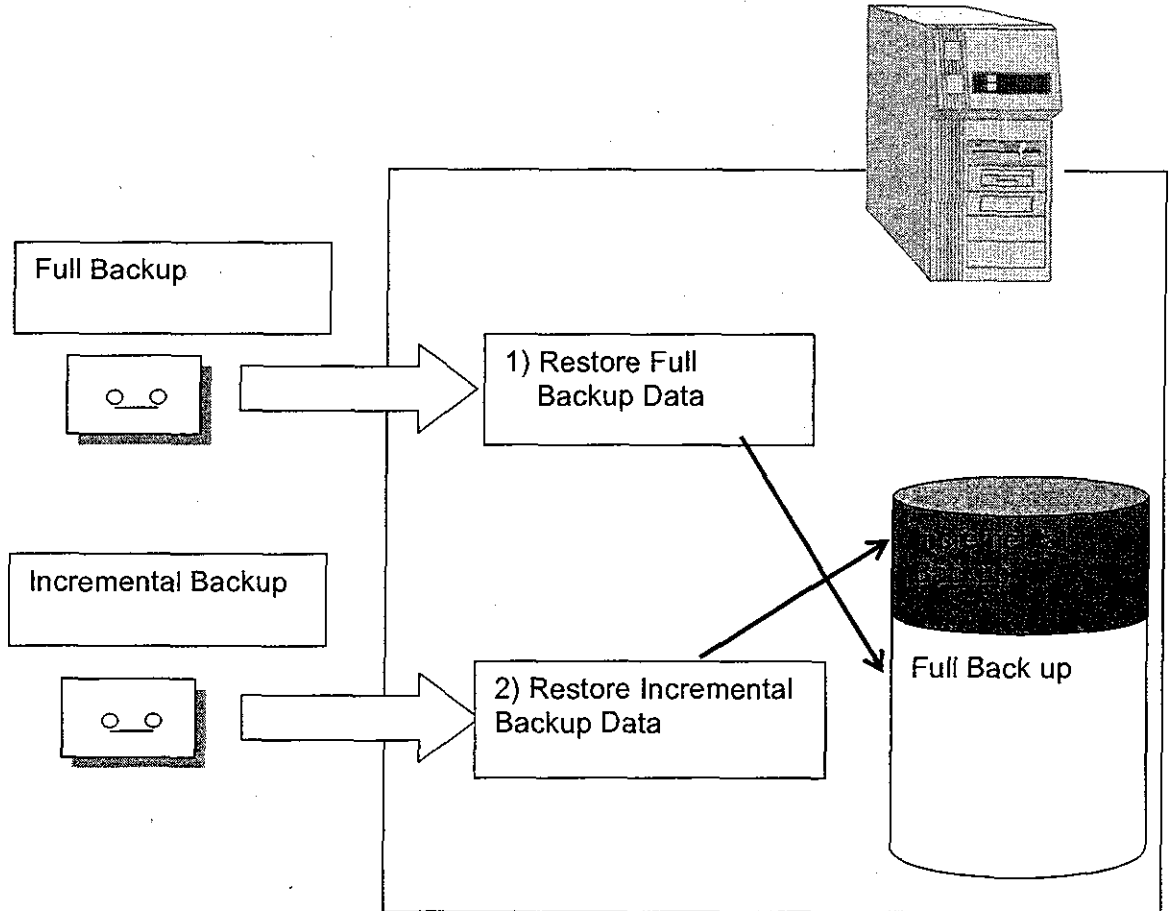
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### User Data Recovery

- **SQL Database and Application Images Recovery**

In the case where the data in the database or the application images are damaged, the recovery procedure is as follows:

- 1) Restore User Data using User Full Backup data.
- 2) Restore User Data using User Incremental Backup data.

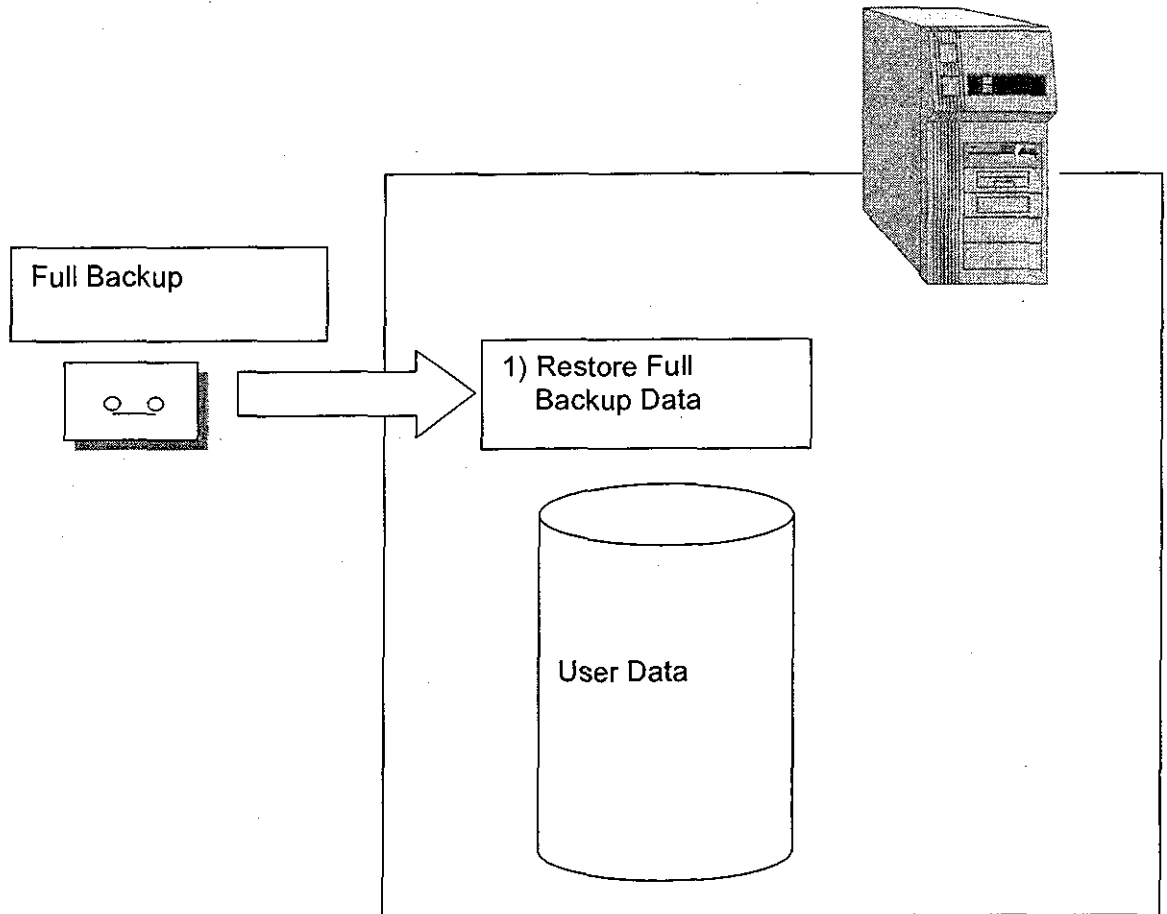


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- **Other files Recovery**

In the case where other files (including IDAS application itself) are damaged, the recovery procedure is as follows:

- 1) Restore other files using Full Backup data



## **Annex (6) Program Function Definition**





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<b>Program Function Definition</b>	<b>3.1.3</b>		<b>Industrial Design Administration System</b>			
<i>Program Name</i>		<i>Program ID</i>				<i>Page</i>
<b>Analyze Web Page</b>		<b>W0101C</b>				<b>1</b>

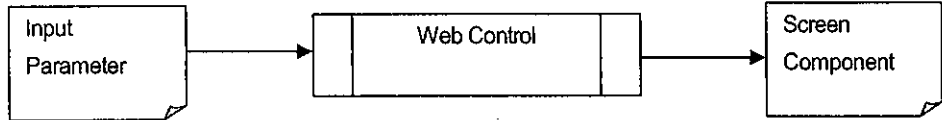
<i>PG Type</i>	<i>Core</i>	<i>PG Kind</i>	<i>WWW S.</i>	<i>Development Language</i>	<i>Perl</i>	<b>Input/Output Parameter</b>			
<b>Function Definition:</b>						<i>No</i>	<i>Parameter Name</i>	<i>Structure /Class Name</i>	
As clicked the form "submit" on the client web page, this program is called, and receives all input field information as parameters.						1	Args[0] (file name)	None	
1) Receive input stream information from STDOUT.						2	Args[1] (user id)	None	
2) Analyze and split the stream information into the array.						3	Args[2] (password)	None	
3) Open the parameter file which name is generated by the system automatically and put all information into the parameter file based on array value created in 2) process.						4	Args[3] (screen id)	None	
Note: Parameter file does not include user id, password, screen id and action information.						5	Args[4] (action name)	None	
4) Retrieve user id, password, screen id and action information.									
5) Make a new directory for each user if there is no specific directory.						<b>Access Table</b>			
6) Clean up all previous information in the directory when a user accesses to the system with new session.						<i>No</i>	<i>Table ID</i>	<i>Table Name</i>	<i>Record Length</i>
7) Call Web control program with using parameters.						1	none	Input parameter text	Not fixed
<b>Input/Output Relation Diagram:</b>									
<pre> graph LR     Screen[Screen] --&gt; Analyze[Analyze Web Page]     Analyze --&gt; Input[Input Parameter] </pre>									
						<b>Common Sub Program</b>			
						<i>No</i>	<i>Program ID</i>	<i>Program Name</i>	
						1	W0103C	Debug Mode Routine for Perl	



Document Name	Chapter in SDS	Project Name	System Name	Doc. Version	Update Date	Author
Program Function Definition	3.1.3		Industrial Design Administration System			
Program Name	Program ID				Page	
Debug Mode Routine for Perl	W0103C				3	

PG Type	Core	PG Kind	WWW S.	Development Language	Perl	Input/Output Parameter			
<b>Function Definition:</b>						No	Parameter Name	Structure /Class Name	
Program tracks log string in the specified file.( It permanently resides on the memory)						1	Args[0] (log strings)	None	
<ol style="list-style-type: none"> <li>1) Opens the log file and creates a socket to receive log string.</li> <li>2) Waits for a connection from the client (Other Perl module)</li> <li>3) When program receives a connection request, it reads the log strings from connection stream.</li> <li>4) Puts read log strings into the log file.</li> <li>5) Waits for a connection from the client (Other Perl module)</li> </ol>									
Note: process 2) and 5) are the same processes, which means they are loop processes.									
<b>Input/Output Relation Diagram:</b>						<b>Access Table</b>			
<pre> graph LR     A[Debug Mode Routine for Perl] --&gt; B[Log text]           </pre>						No	Table ID	Table Name	Record Length
						1	none	Log text	Not fixed
						<b>Common Sub Program</b>			
						No	Program ID	Program Name	

<i>Document Name</i>	<i>Chapter in SDS</i>	<i>Project Name</i>	<i>System Name</i>	<i>Doc. Version</i>	<i>Update Date</i>	<i>Author</i>
<b>Program Function Definition</b>	<b>3.1.3</b>		<b>Industrial Design Administration System</b>			
<i>Program Name</i>		<i>Program ID</i>				<i>Page</i>
<b>Web Control</b>		<b>W0201C</b>				<b>4</b>

<i>PG Type</i>	<i>Core</i>	<i>PG Kind</i>	<i>WWW S.</i>	<i>Development Language</i>	<i>Java</i>	<b>Input/Output Parameter</b>			
<b>Function Definition:</b> Program reads the input parameter screen and calls java program by using socket stream. After that, the program receives the screen component array from java program, and makes the screen parameter csv file.						<i>No</i>	<i>Parameter Name</i>	<i>Structure /Class Name</i>	
<p>1) Opens the input parameter screen which is generated by Perl.</p> <p>2) Makes parameter class on the memory.</p> <p>3) Calls java program and passes the parameters using socket.</p> <p>4) Waits until java returns some values.</p> <p>5) Receives the screen component array from java.</p> <p>6) Makes the screen parameter file based on the received information.</p> <p>7) Returns the screen parameter file name and screen template name to Perl</p>						1	Input parameter file name	None	
						2	user id	None	
						3	password	None	
						4	screen id	None	
						5	action name	None	
						6	Field name	Input parameter	
						7	Field value	Input parameter	
						8	Field Label	Screen component	
						9	Field parameter value	Screen component	
						10	Screen Component file name	None	
						11	Screen template name	None	
<b>Input/Output Relation Diagram:</b>						<b>Access Table</b>			
 <pre> graph LR     IP[Input Parameter] --&gt; WC[Web Control]     WC --&gt; SC[Screen Component] </pre>						<i>No</i>	<i>Table ID</i>	<i>Table Name</i>	<i>Record Length</i>
<b>Common Sub Program</b>						<i>No</i>	<i>Program ID</i>	<i>Program Name</i>	
						1	A0216C	Debug Mode Routine for Java	

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Program Function Definition	3.1.3		Industrial Design Administration System			
Program Name		Program ID				Page
Application Control		A0202C				5

PG Type	Core	PG Kind	Application S.	Development Language	Java	<b>Input/Output Parameter</b>			
<b>Function Definition:</b> Program allocates the new process (copy of itself) for each connection request via socket, and binds client processes and newly allocated process together. Then it executes and controls all related processes. (It permanently resides on the memory)  1) Reads the ini file to get permanent system parameters such as debug level, system language and so on. 2) Makes a socket to receive a request in order to execute the program. 3) Waits for a connection from the client (Web Control Java Program) 4) When program receives a connection request, it makes the new process and binds new process and client requests. 5) Waits for a connection from the client (Web Control Java Program)  Note: process 2) and 5) are the same processes, which means they are loop processes.  6) Reads the input parameter via bound socket stream. 7) Executes the related programs and controls them.						No	Parameter Name	Structure /Class Name	
						1	user id	None	
						2	password	None	
						3	screen id	None	
						4	action name	None	
						5	Field name	Input parameter	
						6	Field value	Input parameter	
						7	Field Label	Screen component	
						8	Field parameter value	Screen component	
						9	Screen template name	None	
						<b>Access Table</b>			
						No	Table ID	Table Name	Record Length
						1	None	System ini file	None
						<b>Common Sub Program</b>			
						No	Program ID	Program Name	
						1	A0216C	Debug Mode Routine for Java	
						2	A0211C	Make SQL	
						3	A0215C	User Login(Session Control)	
<b>Input/Output Relation Diagram:</b>  <div style="border: 1px solid black; width: 150px; height: 40px; margin: 20px auto; display: flex; align-items: center; justify-content: center;"> <span>Application Control</span> </div>									

<i>Document Name</i>	<i>Chapter in SDS</i>	<i>Project Name</i>	<i>System Name</i>	<i>Doc. Version</i>	<i>Update Date</i>	<i>Author</i>
<b>Program Function Definition</b>	<b>3.1.3</b>	<b>IPCM Project</b>	<b>Industrial Design Administration System</b>			
<i>Program Name</i>		<i>Program ID</i>				<i>Page</i>
<b>Access Right Check</b>		<b>A0203C</b>				<b>6</b>

<i>PG Type</i>	<i>Core</i>	<i>PG Kind</i>	<i>Application S.</i>	<i>Development Language</i>	<i>Java</i>	<i>Structure /Class Name</i>			
<b>Function Definition:</b>						<i>No</i>	<i>Parameter Name</i>	<i>Structure Name</i>	
Program checks three types of access right, login right, data access right and operation access right.						1	User id	BaselInfo	
1) When a user accesses to the system for the first time, program checks the user id and password. Then it returns the result.						2	Screen id	BaselInfo	
2) When a user accesses to the system for more than twice, program checks the right as follows:-						3	Action name	BaselInfo	
- Checks the session information to see whether the user is logged in to the system or not.						4	password	None	
- Checks the operation right based on the screen id, action info, and user right group						5	result	None	
- Checks the data access right based on the user right group and target data status.									
3) Then it returns the result									
<b>Result:</b>						<b>Access Table</b>			
0... normal return. (access right check is passed.)						<i>No</i>	<i>Table ID</i>	<i>Table Name</i>	<i>Record Length</i>
1... user id is not in the database.						1	MS03	MSOfficer	471
2... password is invalid for the specified user id						2	MS01	MSGGroup	392
3... there is no access right for the specific operation						3	BM01	BMAApplication	281
4... there is no access right for the specific data						4	BM02	BMIndustrialDesign	586
						5	MR01	MRAAction	257
<b>Input/Output Relation Diagram:</b>						<b>Common Sub Program</b>			
<pre> graph TD     MSOfficer((MSOfficer)) --&gt; ARCheck[Access Right Check]     MSGGroup((MSGGroup)) --&gt; ARCheck     BMAApplication((BMAApplication)) --&gt; ARCheck     BMIndustrialDesign((BMIndustrialDesign)) --&gt; ARCheck     MRAAction((MRAAction)) --&gt; ARCheck </pre>						<i>No</i>	<i>Program ID</i>	<i>Program Name</i>	
						1	A0216C	Debug Mode Routine for Java	
						2	A0211C	Make SQL	
						3	A0215C	User Login(Session Control)	

<i>Document Name</i>	<i>Chapter in SDS</i>	<i>Project Name</i>	<i>System Name</i>	<i>Doc. Version</i>	<i>Update Date</i>	<i>Author</i>
<b>Program Function Definition</b>	<b>3.1.3</b>		<b>Industrial Design Administration System</b>			
<i>Program Name</i>		<i>Program ID</i>				<i>Page</i>
<b>Input Item Check</b>		<b>A0204C</b>				<b>7</b>

<i>PG Type</i>	<i>Core</i>	<i>PG Kind</i>	<i>Application S.</i>	<i>Development Language</i>	<i>Java</i>	<b>Input/Output Parameter</b>			
<b>Function Definition:</b> Program checks all input items.						<i>No</i>	<i>Parameter Name</i>	<i>Structure /Class Name</i>	
1) Checks the following types of input items:-						1	Screen field name	ScreenInfo	
- Data existence check. To see whether the specific data is in the database or not.						2	Screen field value	ScreenInfo	
- File existence check. To see whether the specific file is in the file server or not.									
- Data update check. To see whether the target data is not updated by anyone else since data is first selected.									
- Date consistency check. To see whether date value is consistent with each date items.									
- Date calendar check. To see whether date value follows the calendar.									
- Integer consistency check. To see whether integer value is consistent with each integer items.									
						<b>Access Table</b>			
						<i>No</i>	<i>Table ID</i>	<i>Table Name</i>	<i>Record Length</i>
						1	Many	All tables	Not fixed
<b>Input/Output Relation Diagram:</b> Note: Input table will be decided based on input screen information.						<b>Common Sub Program</b>			
<pre> graph TD     A[Input item Check] --&gt; B[(All tables)]   </pre>						<i>No</i>	<i>Program ID</i>	<i>Program Name</i>	
						1	A0216C	Debug Mode Routine for Java	
						2	A0211C	Make SQL	



<i>Document Name</i>	<i>Chapter in SDS</i>	<i>Project Name</i>	<i>System Name</i>	<i>Doc. Version</i>	<i>Update Date</i>	<i>Author</i>
<b>Program Function Definition</b>	<b>3.1.3</b>		<b>Industrial Design Administration System</b>			
<i>Program Name</i>		<i>Program ID</i>				<i>Page</i>
<b>Usage Track</b>		<b>A0205C</b>				<b>8</b>

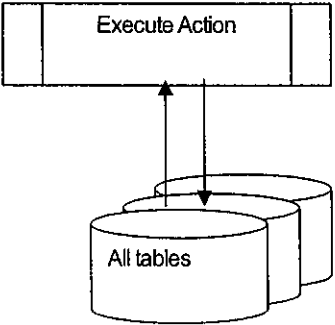
PG Type	Core	PG Kind	Application S.	Development Language	Java	<b>Input/Output Parameter</b>			
<b>Function Definition:</b> Program keeps track of system usage for the purpose of storing historical data and system usage.  1) Makes one record for usage track in the database at the initial stage of an action (update some data) for system. 2) Updates the record at the end of action for the purpose of indicating the action is completed. 3) Search related historical data in the database. <ul style="list-style-type: none"> <li>- if there is data, update historical data.(process finish date)</li> <li>- if there is no data, makes a new record on history table based on status table information.</li> </ul>						No	Parameter Name	Structure /Class Name	
						1	User id	BaseInfo	
						2	Screen id	BaseInfo	
						3	Action	BaseInfo	
<b>Access Table</b>									
No	Table ID	Table Name	Record Length						
1	BS26	BSStatus	103						
2	MS04	MSUsage	64						
3	BS16	BSHistory	124						
<b>Input/Output Relation Diagram:</b>									
<pre> graph LR     MSSatus[(MSSatus)] --&gt; UsageTrack[Usage Track]     UsageTrack --&gt; BSHistory[(BSHistory)]     MSUsage[(MSUsage)] &lt;--&gt; UsageTrack     </pre>									
<b>Common Sub Program</b>									
No	Program ID	Program Name							
1	A0216C	Debug Mode Routine for Java							
2	A0211C	Make SQL							

<i>Document Name</i>	<i>Chapter in SDS</i>	<i>Project Name</i>	<i>System Name</i>	<i>Doc. Version</i>	<i>Update Date</i>	<i>Author</i>
<b>Program Function Definition</b>	<b>3.1.3</b>		<b>Industrial Design Administration System</b>			
<i>Program Name</i>		<i>Program ID</i>				<i>Page</i>
<b>Make Action List</b>		<b>A0206C</b>				<b>9</b>

<i>PG Type</i>	<i>Core</i>	<i>PG Kind</i>	<i>Application S.</i>	<i>Development Language</i>	<i>Java</i>	<b>Input/Output Parameter</b>			
<b>Function Definition:</b>						<i>No</i>	<i>Parameter Name</i>	<i>Structure /Class Name</i>	
Program makes the action list, which describes all necessary actions to take.						1	Screen id	BaselInfo	
1) Searches the action table to retrieve action information.						2	Action name	BaselInfo	
2) Analyzes action information which is retrieved in the process 1).						3	Action number	ActionList	
3) Makes the action list by sequential order.						4	Action name	ActionList	
						5	Target table name	ActionList	
						6	Suppliment Info	ActionList	
						<b>Access Table</b>			
						<i>No</i>	<i>Table ID</i>	<i>Table Name</i>	<i>Record Length</i>
						1	MR01	MRAction	257
						<b>Common Sub Program</b>			
						<i>No</i>	<i>Program ID</i>	<i>Program Name</i>	
						1	A0216C	Debug Mode Routine for Java	
						2	A0211C	Make SQL	
<b>Input/Output Relation Diagram:</b>									
<pre> graph BT     MRAction[(MRAction)] --&gt; MakeActionList[Make Action List] </pre>									

<i>Document Name</i>	<i>Chapter in SDS</i>	<i>Project Name</i>	<i>System Name</i>	<i>Doc. Version</i>	<i>Update Date</i>	<i>Author</i>
<b>Program Function Definition</b>	<b>3.1.3</b>		<b>Industrial Design Administration System</b>			
<i>Program Name</i>		<i>Program ID</i>				<i>Page</i>
<b>Execute Action</b>		<b>A0207C</b>				<b>10</b>

<i>PG Type</i>	<i>Core</i>	<i>PG Kind</i>	<i>Application S.</i>	<i>Development Language</i>	<i>Java</i>	<b>Input/Output Parameter</b>			
<b>Function Definition:</b> Program executes all actions based on Action List information.						<i>No</i>	<i>Parameter Name</i>	<i>Structure /Class Name</i>	
1) Reads the action list information and executes the corresponding action.						1	Action number	ActionList	
2) Updates the action list with the complete indicator for each action.						2	Action name	ActionList	
3) If the update action of table is not completed, try it once again.						3	Target table name	ActionList	
4) Continues the process 1) – 3) until all actions will be completed.						4	Suppliment Info	ActionList	
5) Operates database commit.						5	Result flag	ActionList	
- If all actions are completed with no error, a command commit will be issued.						6	Total result	ActionList	
- If all actions are completed with error or not completes, a command rollback will be issued.									
6) Updates the action list based on the result.						<b>Access Table</b>			
						<i>No</i>	<i>Table ID</i>	<i>Table Name</i>	<i>Record Length</i>
						1	Many	All tables	Not Fixed
<b>Input/Output Relation Diagram:</b> Note: Input / output table will be decided based on input screen information.						<b>Common Sub Program</b>			
						<i>No</i>	<i>Program ID</i>	<i>Program Name</i>	
						1	A0216C	Debug Mode Routine for Java	
						2	A0211C	Make SQL	



<i>Document Name</i>	<i>Chapter in SDS</i>	<i>Project Name</i>	<i>System Name</i>	<i>Doc. Version</i>	<i>Update Date</i>	<i>Author</i>
<b>Program Function Definition</b>	<b>3.1.3</b>		<b>Industrial Design Administration System</b>			
<i>Program Name</i>		<i>Program ID</i>				<i>Page</i>
<b>Action Library</b>		<b>A0208L</b>				<b>11</b>

<i>PG Type</i>	<i>Library</i>	<i>PG Kind</i>	<i>Application S.</i>	<i>Development Language</i>	<i>Java</i>	<b>Input/Output Parameter</b>			
<b>Function Definition:</b> This is small program library, which is called by Execute Action Program.						<i>No</i>	<i>Parameter Name</i>	<i>Structure /Class Name</i>	
1) Executes some actions such as described below.						1	User id	BaseInfo	
- Updates the specific table for business data						2	Screen id	BaseInfo	
- Initializes the screen as blank						3	Screen field name	ScreenInfo	
- Updates the status table						4	Screen field value	ScreenInfo	
- Calls the file managing program						5	Target table name	ActionList	
- Reads the next screen information						6	Suppliment Info	ActionList	
- file transfer						7	Result flag	ActionList	
- calls the statistics report program						<b>Access Table</b>			
- calls some another special programs such as examiner default allocation routine						<i>No</i>	<i>Table ID</i>	<i>Table Name</i>	<i>Record Length</i>
- Makes a text file based on field value. (for letter function)						1	Many	All tables	Not Fixed
<b>Input/Output Relation Diagram:</b> Note: Input / output table will be determined based on input screen information.						2	None	Contents Text File	Not Fixed
						<b>Common Sub Program</b>			
						<i>No</i>	<i>Program ID</i>	<i>Program Name</i>	
						1	A0216C	Debug Mode Routine for Java	
						2	A0211C	Make SQL	
						3	A0219C	File Control	

<i>Document Name</i>	<i>Chapter in SDS</i>	<i>Project Name</i>	<i>System Name</i>	<i>Doc. Version</i>	<i>Update Date</i>	<i>Author</i>
<b>Program Function Definition</b>	<b>3.1.3</b>		<b>Industrial Design Administration System</b>			
<i>Program Name</i>		<i>Program ID</i>				<i>Page</i>
<b>Screen Component List</b>		<b>A0209C</b>				<b>12</b>

<i>PG Type</i>	<i>Core</i>	<i>PG Kind</i>	<i>Application S.</i>	<i>Development Language</i>	<i>Java</i>	<b>Input/Output Parameter</b>			
<b>Function Definition:</b> Program makes a list for all screen components. Components are Label, input text box, check box, image and so on.  1) Searches the next screen template name based on next screen id information 2) Searches all component information based on screen template name. 3) Reads each component record and makes the screen component list with specific parameter, which describes the field table. 4) Updates the screen component list and puts an indicator to be used in the next program as Screen Component Contents. 5) Replaces the label strings if another system language is selected . (Multi Language routine)						<i>No</i>	<i>Parameter Name</i>	<i>Structure /Class Name</i>	
						1	Next screen id	BaseInfo	
						2	Language Kind	BaseInfo	
						3	Field name	ScreenComponentList	
						4	Field type	ScreenComponentList	
						5	Field length	ScreenComponentList	
						6	Field item value	ScreenComponentList	
						<b>Access Table</b>			
						<i>No</i>	<i>Table ID</i>	<i>Table Name</i>	<i>Record Length</i>
						1	MR02	MRDisplay	468
						2	MR05	MRField	1825
						3	MS02	MSMessage	847
						<b>Common Sub Program</b>			
						<i>No</i>	<i>Program ID</i>	<i>Program Name</i>	
						1	A0216C	Debug Mode Routine for Java	
						2	A0211C	Make SQL	
<b>Input/Output Relation Diagram:</b>									
<pre> graph BT     MRDisplay((MRDisplay)) --&gt; SCL[Screen Component List]     MRField((MRField)) --&gt; SCL     MSMessage((MSMessage)) --&gt; SCL           </pre>									

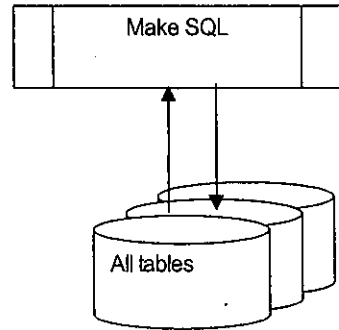
<i>Document Name</i>	<i>Chapter in SDS</i>	<i>Project Name</i>	<i>System Name</i>	<i>Doc. Version</i>	<i>Update Date</i>	<i>Author</i>
Program Function Definition	3.1.3		Industrial Design Administration System			
<i>Program Name</i>		<i>Program ID</i>				<i>Page</i>
Screen Component Content		A0210C				13

<i>PG Type</i>	<i>Core</i>	<i>PG Kind</i>	<i>Application S.</i>	<i>Development Language</i>	<i>Java</i>	<i>Input/Output Parameter</i>			
<b>Function Definition:</b>						<i>No</i>	<i>Parameter Name</i>	<i>Structure /Class Name</i>	
<p>Program makes a list of screen contents based on the component list, which is generated by Java program.</p> <p>Contents are field names with some field parameters</p> <ol style="list-style-type: none"> <li>1) Reads each one line of the component list.</li> <li>2) Analyzes the read line and searches the corresponding table when the program finds an indicator to shown that it needs to take some actions. Those actions are described as below- <ul style="list-style-type: none"> <li>- Searches the table in order to make option list for selection field.</li> <li>- Sets selection and check option in select, check box and radio button as a default value.</li> <li>- Puts index tab indicator for Perl program.</li> <li>- Sets readonly and disable option in the input field based on the access right information.</li> <li>- Sets the default value on all input fields.</li> </ul> </li> <li>3) Makes the screen contents and returns it to Java program.</li> </ol>						1	Field name	ScreenComponentList	
						2	Field type	ScreenComponentList	
						3	Field length	ScreenComponentList	
						4	Field item value	ScreenComponentList	
						5	Field name	ScreenContentList	
						6	Field item value	ScreenContentList	
						7			
						<i>Access Table</i>			
						<i>No</i>	<i>Table ID</i>	<i>Table Name</i>	<i>Record Length</i>
						1	Many	All tables	Not Fixed
						<i>Common Sub Program</i>			
						<i>No</i>	<i>Program ID</i>	<i>Program Name</i>	
						1	A0216C	Debug Mode Routine for Java	
						2	A0211C	Make SQL.	
<b>Input/Output Relation Diagram:</b>									
<pre> graph BT     A[All tables] --&gt; B[Screen Component Content] </pre>									

<i>Document Name</i>	<i>Chapter in SDS</i>	<i>Project Name</i>	<i>System Name</i>	<i>Doc. Version</i>	<i>Update Date</i>	<i>Author</i>
<b>Program Function Definition</b>	<b>3.1.3</b>		<b>Industrial Design Administration System</b>			
<i>Program Name</i>		<i>Program ID</i>				<i>Page</i>
<b>Make SQL</b>		<b>A0211C</b>				<b>14</b>

<i>PG Type</i>	<i>Core</i>	<i>PG Kind</i>	<i>Application S.</i>	<i>Development Language</i>	<i>Java</i>	<b>Input/Output Parameter</b>			
<b>Function Definition:</b> This program is common module library in order to access to the database. All actions which accesses to the database are done by those modules. 1) Modules are listed as below:- <ul style="list-style-type: none"> <li>- Make a database connection</li> <li>- Select a single table or multiple tables which are joined.</li> <li>- Insert a new record into a table.</li> <li>- Delete a record from a table.</li> <li>- Update a record in a table.</li> <li>- Table lock control.</li> <li>- Commit management</li> <li>- Make an SQL statement based on parameters</li> <li>- Read the table field information such as field name, field type, field length and so on.</li> <li>- Make "where" condition statement with wild card handling.</li> <li>- Assign key for record.</li> </ul>						<i>No</i>	<i>Parameter Name</i>	<i>Structure /Class Name</i>	
						1	Many	Many	
						Note :Detail information is described on module detail specification document			
						<b>Access Table</b>			
						<i>No</i>	<i>Table ID</i>	<i>Table Name</i>	<i>Record Length</i>
						1	Many	All tables	Not Fixed
						<b>Common Sub Program</b>			
						<i>No</i>	<i>Program ID</i>	<i>Program Name</i>	
						1	A0216C	Debug Mode Routine for Java	

**Input/Output Relation Diagram:**



Document Name	Chapter in SDS	Project Name	System Name	Doc. Version	Update Date	Author
Program Function Definition	3.1.3		Industrial Design Administration System			
Program Name		Program ID				Page
Default Examiner Assign Routine		A0212L				15

PG Type	Library	PG Kind	Application S.	Development Language	Java	Input/Output Parameter			
<b>Function Definition:</b>						No	Parameter Name	Structure /Class Name	
Program selects one examiner as a default value in the examiner allocation stage.						1	Examiner name	None	
An examiner who has the lowest task load will be selected by this program. The lowest task load means that he/she holds the lowest number of applications or requests. In addition, program treats 5 requests as one application.									
If there are two or more examiners to be selected, program chooses one of them randomly.									
1) Searches all examiners from the officer table and group table.									
2) Counts the number of applications and requests which belong to this examiner.									
3) Compares the result and chooses one examiner.									
4) Returns the examiner who holds the lowest task load.									
						Access Table			
						No	Table ID	Table Name	Record Length
						1	MS03	MSOfficer	471
						2	MS01	MSGGroup	392
						3	BS26	BSStatus	103
						Common Sub Program			
						No	Program ID	Program Name	
						1	A0216C	Debug Mode Routine for Java	
						2	A0211C	Make SQL	
<b>Input/Output Relation Diagram:</b>									
<pre> graph BT     MSOfficer[(MSOfficer)] --&gt; Routine[Default Examiner Assign Routine]     MSGGroup[(MSGGroup)] --&gt; Routine     BSStatus[(BSStatus)] --&gt; Routine     </pre>									



<i>Document Name</i>	<i>Chapter in SDS</i>	<i>Project Name</i>	<i>System Name</i>	<i>Doc. Version</i>	<i>Update Date</i>	<i>Author</i>
<b>Program Function Definition</b>	<b>3.1.3</b>		<b>Industrial Design Administration System</b>			
<i>Program Name</i>		<i>Program ID</i>				<i>Page</i>
<b>Timer Control for Business Rule</b>		<b>A0213C</b>				<b>16</b>

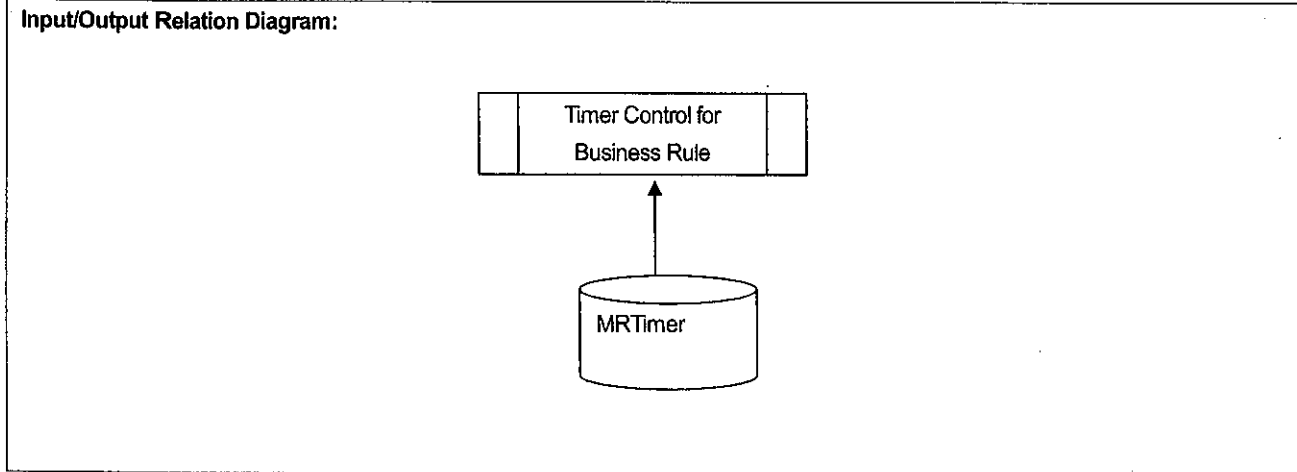
<i>PG Type</i>	<i>Core</i>	<i>PG Kind</i>	<i>Application S.</i>	<i>Development Language</i>	<i>Java</i>	<b>Input/Output Parameter</b>		
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**Function Definition:**  
This program executes the scheduled task. (It permanently resides on the memory)  
This program makes a list of scheduled task on the memory for one day, and the list is updated once a day.  
Program executes specified module based on this list.

- 1) Searches the timer table to load scheduled task information.
- 2) Updates the list of scheduled task once a day. (at midnight)
- 3) Watches the timer, and makes an action list when it comes the time to execute scheduled task.
- 4) Executes the action by using Execute action module.

<i>No</i>	<i>Parameter Name</i>	<i>Structure /Class Name</i>
1	Action number	ActionList
2	Action name	ActionList
3	Target table name	ActionList
4	Suppliment Info	ActionList
5	Result flag	ActionList
6	Total result	ActionList

<b>Access Table</b>			
<i>No</i>	<i>Table ID</i>	<i>Table Name</i>	<i>Record Length</i>
1	MR12	MRTimer	315



<b>Common Sub Program</b>		
<i>No</i>	<i>Program ID</i>	<i>Program Name</i>
1	A0216C	Debug Mode Routine for Java
2	A0211C	Make SQL
3	A0206C	Make Action List
4	A0207C	Execute Action
5	A0205C	Usage Track

Document Name	Chapter in SDS	Project Name	System Name	Doc. Version	Update Date	Author
Program Function Definition	3.1.3		Industrial Design Administration System			
Program Name		Program ID				Page
Automatic Detection for Data Inconsistent		A0214L				17

PG Type	Library	PG Kind	Application S.	Development Language	Java	<b>Input/Output Parameter</b>			
<b>Function Definition:</b> Program checks the consistency of all the data. This program is one of the special functions under Action Library. Program checks the duplicated data of owner, applicant, author, address, company and agent that are entered. This program provides only the list of detected result. Recovery of data operation is not included.  1) Selects all the data in the target tables in the order of the person name / address. 2) Program analyzes all the data each one by one. 3) If program detects the same name of the data or the same address entered, put the data into text file.  Note: program executes process 1) – 3) until checks of all target tables completes.						No	Parameter Name	Structure /Class Name	
<b>Input/Output Relation Diagram:</b> <pre> graph TD     BSAgent((BSAgent)) --&gt; AD[Automatic Detection for Data Inconsistent]     BSAuthor((BSAuthor)) --&gt; AD     BSApplicant((BSApplicant)) --&gt; AD     BSOwner((BSOwner)) --&gt; AD     BSPerson((BSPerson)) --&gt; AD     BSAddressBook((BSAddressBook)) --&gt; AD     BSCompany((BSCompany)) --&gt; AD     AD --&gt; DR[Detection Result]           </pre>						<b>Access Table</b>			
						No	Table ID	Table Name	Record Length
						1	BS02	BSAgent	662
						2	BS05	BSAuthor	46
						3	BS03	BSApplicant	45
						4	BS18	BSOwner	87
						5	BS22	BSPerson	307
						6	BS01	BSAddressBook	337
						7	BS09	BSCompany	185
8	None	Detection Result	Not Fixed						
<b>Common Sub Program</b>						No	Program ID	Program Name	
						1	A0216C	Debug Mode Routine for Java	
						2	A0211C	Make SQL	

<i>Document Name</i>	<i>Chapter in SDS</i>	<i>Project Name</i>	<i>System Name</i>	<i>Doc. Version</i>	<i>Update Date</i>	<i>Author</i>
<b>Program Function Definition</b>	<b>3.1.3</b>		<b>Industrial Design Administration System</b>			
<i>Program Name</i>		<i>Program ID</i>				<i>Page</i>
<b>User Login(Session Control)</b>		<b>A0215C</b>				<b>18</b>

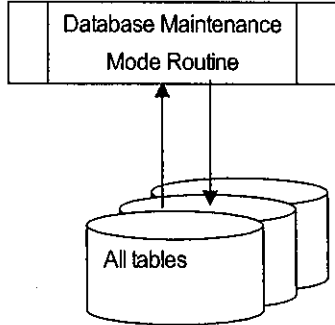
<i>PG Type</i>	<i>Core</i>	<i>PG Kind</i>	<i>Application S.</i>	<i>Development Language</i>	<i>Java</i>	<b>Input/Output Parameter</b>					
<b>Function Definition:</b>						<i>No</i>	<i>Parameter Name</i>	<i>Structure /Class Name</i>			
This program maintains the user login table with handling the time-out process. (It permanently resides on the memory)						1	user id	None			
1) When the program receives new user login information in the system, it makes an entry of the session table on the memory, if there is no user on the list.											
2) When the program receives the information that a user accesses to system, it updates the last access date/time of session information.											
3) For each time the user login/access the system, the program will check the last access date/time of the user - If the last access date/time is more than one hour, program deletes the user login information as a time-out.											
						<b>Access Table</b>					
						<i>No</i>	<i>Table ID</i>	<i>Table Name</i>	<i>Record Length</i>		
						<b>Common Sub Program</b>					
						<i>No</i>	<i>Program ID</i>	<i>Program Name</i>			
						1	A0216C	Debug Mode Routine for Java			
<b>Input/Output Relation Diagram:</b>											
<table border="1" style="margin: auto;"> <tr> <td style="width: 20px; height: 20px;"></td> <td style="width: 100px; height: 20px; text-align: center;">User Login (Session Control)</td> <td style="width: 20px; height: 20px;"></td> </tr> </table>							User Login (Session Control)				
	User Login (Session Control)										



<i>Document Name</i>	<i>Chapter in SDS</i>	<i>Project Name</i>	<i>System Name</i>	<i>Doc. Version</i>	<i>Update Date</i>	<i>Author</i>
<b>Program Function Definition</b>	<b>3.1.3</b>		<b>Industrial Design Administration System</b>			
<i>Program Name</i>		<i>Program ID</i>				<i>Page</i>
<b>Database Maintenance Mode Routine</b>		<b>A0217C</b>				<b>20</b>

<i>PG Type</i>	<i>Core</i>	<i>PG Kind</i>	<i>Application S.</i>	<i>Development Language</i>	<i>Java</i>	<b>Input/Output Parameter</b>			
<b>Function Definition:</b> This program updates / deletes the target table record. This is for the system administrator function. This function includes the search routine with no limitation to table access. This is used to modify only one record for the purpose of when the user makes mistakes. When the system needs to maintain whole records of data, the administrator must use SQL command to access to the database directory.  1) Makes the temporary screen to modify one record based on specified table name. 2) Updates / Deletes one record based on specified field value.						<i>No</i>	<i>Parameter Name</i>	<i>Structure /Class Name</i>	
						1	Table Action Name	None	
						2	Target Table Name	None	
						3	Update Field Name	RecordInfo	
						4	Update Field Value	RecordInfo	
						<b>Access Table</b>			
						<i>No</i>	<i>Table ID</i>	<i>Table Name</i>	<i>Record Length</i>
						1	Many	All Tables	Not Fixed
						<b>Common Sub Program</b>			
						<i>No</i>	<i>Program ID</i>	<i>Program Name</i>	
						1	A0216C	Debug Mode Routine for Java	
						2	A0211C	Make SQL	
						3	A0218C	Search Routine	

**Input/Output Relation Diagram:**



<i>Document Name</i>	<i>Chapter in SDS</i>	<i>Project Name</i>	<i>System Name</i>	<i>Doc. Version</i>	<i>Update Date</i>	<i>Author</i>
<b>Program Function Definition</b>	<b>3.1.3</b>		<b>Industrial Design Administration System</b>			
<i>Program Name</i>		<i>Program ID</i>				<i>Page</i>
<b>Search Routine</b>		<b>A0218C</b>				<b>21</b>

<i>PG Type</i>	Core	<i>PG Kind</i>	Application S.	<i>Development Language</i>	Java	<b>Input/Output Parameter</b>			
<b>Function Definition:</b>						<i>No</i>	<i>Parameter Name</i>	<i>Structure /Class Name</i>	
This program selects the table and returns the result to Java program.						1	Target Name	None	
This program can search following three kinds of data:-						2	Update Field Name	RecordInfo	
<ul style="list-style-type: none"> <li>- Database table information with limitation based on the access right.</li> <li>- File information based on the access right.</li> <li>- Image information based on the access right.</li> </ul>						3	Update Field Value	RecordInfo	
1) When program receives the search request, checks the access right.									
2) Then it returns the result after filtering the result record.									
<b>Input/Output Relation Diagram:</b>						<b>Access Table</b>			
						<i>No</i>	<i>Table ID</i>	<i>Table Name</i>	<i>Record Length</i>
						1	Many	All tables	Not Fixed
						2	BS17	BSIDImage	300 +
						3	None	File	None
						<b>Common Sub Program</b>			
						<i>No</i>	<i>Program ID</i>	<i>Program Name</i>	
						1	A0216C	Debug Mode Routine for Java	
						2	A0211C	Make SQL	
						3	A0219C	File Control	

<i>Document Name</i>	<i>Chapter in SDS</i>	<i>Project Name</i>	<i>System Name</i>	<i>Doc. Version</i>	<i>Update Date</i>	<i>Author</i>
<b>Program Function Definition</b>	<b>3.1.3</b>		<b>Industrial Design Administration System</b>			
<i>Program Name</i>		<i>Program ID</i>				<i>Page</i>
<b>File Control</b>		<b>A0219C</b>				<b>22</b>

<i>PG Type</i>	<i>Core</i>	<i>PG Kind</i>	<i>Application S.</i>	<i>Development Language</i>	<i>Java</i>	<i>Input/Output Parameter</i>				
<b>Function Definition:</b>						<i>No</i>	<i>Parameter Name</i>	<i>Structure /Class Name</i>		
<p>This program is common module library that is designed to access to any files. All necessary actions to access to the files are done by these modules.</p> <p>1) Assigns the new file name based on application no.  2) Changes the file name  3) Transfers a file from the client into the file server.  4) Transfers a file from the file server into the www server.  5) Deletes a file from the file server  6) Modifies the permission of the file.  7) Searches a file based on the specified file name.  8) Copies the file.</p>						1	File name	None		
						2	Action Name	None		
						<b>Access Table</b>				
						<i>No</i>	<i>Table ID</i>	<i>Table Name</i>	<i>Record Length</i>	
						<b>Common Sub Program</b>				
						<i>No</i>	<i>Program ID</i>	<i>Program Name</i>		
						1	A0216C	Debug Mode Routine for Java		
<div data-bbox="541 1133 873 1220" data-label="Diagram"> <pre> graph LR     A[ ] --- B[File Control] --- C[ ] </pre> </div>										

<i>Document Name</i>	<i>Chapter in SDS</i>	<i>Project Name</i>	<i>System Name</i>	<i>Doc. Version</i>	<i>Update Date</i>	<i>Author</i>
<b>Program Function Definition</b>	<b>3.1.3</b>		<b>Industrial Design Administration System</b>			
<i>Program Name</i>		<i>Program ID</i>				<i>Page</i>
<b>Screen Check Template Library</b>		<b>C0301C</b>				<b>23</b>

<i>PG Type</i>	Core	<i>PG Kind</i>	Client	<i>Development Language</i>	JavaScript	<b>Input/Output Parameter</b>			
<b>Function Definition:</b>						<i>No</i>	<i>Parameter Name</i>	<i>Structure /Class Name</i>	
<p>This is the library of small programs to check the input value on the screen.</p> <p>These small programs are mainly designed to check the value in the client side.</p> <p>1) Executes some actions as described below.</p> <ul style="list-style-type: none"> <li>- Initial process to check OS type, Browser Type and Browser version</li> <li>- Completion/modification of the receipt process</li> <li>- Action to add/delete the information of applicant, owner, agent, cheque, author and so on.</li> <li>- Control of field attributes</li> <li>- Check of the values if there are any changes after the screen is loaded</li> <li>- Action to submit</li> <li>- Change the view of the image on the attach image screen</li> <li>- Print the targeted image</li> </ul>						1	Field Value	None	
						2	Field ID	None	
						3	Field Name	None	
						4	Event Name	None	
						5	Field Object	None	
						6	Return Value	None	
						<b>Access Table</b>			
						<i>No</i>	<i>Table ID</i>	<i>Table Name</i>	<i>Record Length</i>
<b>Input/Output Relation Diagram:</b>						<b>Common Sub Program</b>			
<pre> graph LR   Screen[Screen] --&gt; Library[Screen Check Template Library]   </pre>						<i>No</i>	<i>Program ID</i>	<i>Program Name</i>	
						1	C0302C	Screen Check Module	



Document Name	Chapter in SDS	Project Name	System Name	Doc. Version	Update Date	Author
<b>Program Function Definition</b>	<b>3.1.3</b>		<b>Industrial Design Administration System</b>			
Program Name			Program ID			Page
<b>Screen Check Routine</b>			<b>C0302C</b>			<b>24</b>

PG Type	Core	PG Kind	Client	Development Language	JavaScript	Input/Output Parameter			
<b>Function Definition:</b>						<i>No</i>	<i>Parameter Name</i>	<i>Structure /Class Name</i>	
This is the library of small programs to check the input value on the screen.						1	Field ID	None	
These small programs are mainly designed to check the value in the client side.						2	Field Name	None	
1) Executes some actions as described below.						3	Field Value	None	
- Validity check of input field such as numeric check, character check, phone number check, decimal place check, date check.						4	Return Value	None	
- Mandatory field check if the field name contains the mandatory flag.									
- If the check box is on, the module checks if all the related fields are input.									
- If there is an area where at least one check box has to be on, the module checks the number of check boxes that are on									
<b>Input/Output Relation Diagram:</b>						<b>Access Table</b>			
<pre> graph LR     Screen[Screen] --&gt; TemplateLibrary[Screen Check Template Library]     TemplateLibrary &lt;--&gt; ScreenCheckModule[Screen Check Module]     subgraph Tables         T1[ ]         T2[ ]         T3[ ]         T4[ ]         T5[ ]     end     TemplateLibrary --- T1     TemplateLibrary --- T2     TemplateLibrary --- T3     TemplateLibrary --- T4     TemplateLibrary --- T5     ScreenCheckModule --- T1     ScreenCheckModule --- T2     ScreenCheckModule --- T3     ScreenCheckModule --- T4     ScreenCheckModule --- T5 </pre>						<i>No</i>	<i>Table ID</i>	<i>Table Name</i>	<i>Record Length</i>
						<b>Common Sub Program</b>			
						<i>No</i>	<i>Program ID</i>	<i>Program Name</i>	
						1	C0301L	Screen Check Template Library	





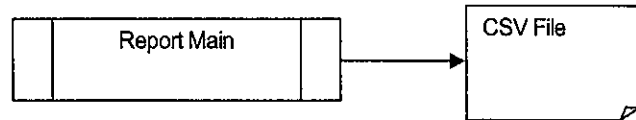




<i>Document Name</i>	<i>Chapter in SDS</i>	<i>Project Name</i>	<i>System Name</i>	<i>Doc. Version</i>	<i>Update Date</i>	<i>Author</i>
<b>Program Function Definition</b>	<b>3.1.3</b>		<b>Industrial Design Administration System</b>			
<i>Program Name</i>		<i>Program ID</i>				<i>Page</i>
<b>Report Main</b>		<b>A0230L</b>				<b>29</b>

<i>PG Type</i>	<i>Library</i>	<i>PG Kind</i>	<i>Application S.</i>	<i>Development Language</i>	<i>Java</i>	<b>Input/Output Parameter</b>		
<b>Function Definition:</b>  This program will start the report process. 1. Setup command field in the ReportVO 2. Make a reference variable to BaseInfo in to ReportVO 3. Call SetupReportDelegate to assemble report SQL 4. Call ReportDelegate to query the database 5. With the data queried inside a Vector, generate a CSV file.						<i>No</i>	<i>Parameter Name</i>	<i>Structure /Class Name</i>
						1	Input Screen Value	BaseInfo
						2	Input directory path	BaseInfo
						3	Command	ReportVO
						4	ValueObject	ReportVO
						5	String csvFilename	None
						<b>Access Table</b>		
						<i>No</i>	<i>Table ID</i>	<i>Table Name</i>
1	None	CSV File	Not Fixed					
<b>Common Sub Program</b>								
<i>No</i>	<i>Program ID</i>	<i>Program Name</i>						
1	A0216C	Debug Mode Routine for Java						

**Input/Output Relation Diagram:**



<i>Document Name</i>	<i>Chapter in SDS</i>	<i>Project Name</i>	<i>System Name</i>	<i>Doc. Version</i>	<i>Update Date</i>	<i>Author</i>
<b>Program Function Definition</b>	<b>3.1.3</b>		<b>Industrial Design Administration System</b>			
<i>Program Name</i>		<i>Program ID</i>				<i>Page</i>
<b>Setup Report Delegate</b>		<b>A0231L</b>				<b>30</b>

<i>PG Type</i>	<i>Core</i>	<i>PG Kind</i>	<i>Application S.</i>	<i>Development Language</i>	<i>Java</i>	<i>Input/Output Parameter</i>					
<b>Function Definition:</b>						<i>No</i>	<i>Parameter Name</i>	<i>Structure /Class Name</i>			
This program is used to instantiate generic assembler class during run time.						1	Command	ReportVO			
1. Instantiate generic object.						2	Value Object	ReportVO			
2. After instantiation, the program will use the instantiated object to retrieve ValueObject.						3	BaseInfo (Ref)	ReportVO			
3. Throw exception error if there is any instantiation errors, class not found errors and illegal access errors.											
						<b>Access Table</b>					
						<i>No</i>	<i>Table ID</i>	<i>Table Name</i>	<i>Record Length</i>		
<b>Input/Output Relation Diagram:</b>						<b>Common Sub Program</b>					
						<i>No</i>	<i>Program ID</i>	<i>Program Name</i>			
<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="width: 20px;"></td> <td style="width: 150px; text-align: center;">SetupReportDelegate</td> <td style="width: 20px;"></td> </tr> </table>							SetupReportDelegate		1	A0216C	Debug Mode Routine for Java
	SetupReportDelegate										

<i>Document Name</i>	<i>Chapter in SDS</i>	<i>Project Name</i>	<i>System Name</i>	<i>Doc. Version</i>	<i>Update Date</i>	<i>Author</i>
<b>Program Function Definition</b>	<b>3.1.3</b>		<b>Industrial Design Administration System</b>			
<i>Program Name</i>		<i>Program ID</i>				<i>Page</i>
<b>Report Assembler</b>		<b>A0232L</b>				<b>31</b>

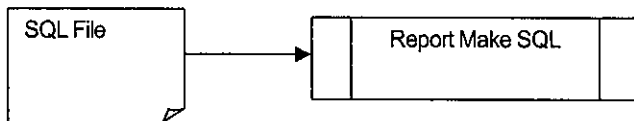
<i>PG Type</i>	<i>Core</i>	<i>PG Kind</i>	<i>Application S.</i>	<i>Development Language</i>	<i>Java</i>	<b>Input/Output Parameter</b>					
<b>Function Definition:</b> This program will dynamically search for the text file based on the value object retrieved and save the unprocessed SQL string into memory. It will also replace parameter key with the actual data selected from the HTML parameter screen and return it to its caller as value object. <ol style="list-style-type: none"> <li>1. Instantiate VOReportSql.</li> <li>2. Get report ID from BaseInfo class.</li> <li>3. Instantiate class ReportMakeSql and pass VOReportSql as parameter.</li> <li>4. Update parameter value to the actual value.</li> </ol>						<i>No</i>	<i>Parameter Name</i>	<i>Structure /Class Name</i>			
						1	Filename	VOReportSql			
						2	SQL details	VOReportSql			
						3	BaseInfo (Ref)	ReportVO			
						<b>Access Table</b>					
						<i>No</i>	<i>Table ID</i>	<i>Table Name</i>	<i>Record Length</i>		
						<b>Common Sub Program</b>					
						<i>No</i>	<i>Program ID</i>	<i>Program Name</i>			
						1	A0216C	Debug Mode Routine for Java			
<b>Input/Output Relation Diagram:</b>  <div style="text-align: center; border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> <table border="1"> <tr> <td style="width: 20px;"></td> <td style="width: 100px; text-align: center;">ReportAssembler</td> <td style="width: 20px;"></td> </tr> </table> </div>							ReportAssembler				
	ReportAssembler										



<i>Document Name</i>	<i>Chapter in SDS</i>	<i>Project Name</i>	<i>System Name</i>	<i>Doc. Version</i>	<i>Update Date</i>	<i>Author</i>
Program Function Definition	3.1.3		Industrial Design Administration System			
<i>Program Name</i>		<i>Program ID</i>				<i>Page</i>
Report Make Sql		A0233L				32

<i>PG Type</i>	<i>Core</i>	<i>PG Kind</i>	<i>Application S.</i>	<i>Development Language</i>	<i>Java</i>	<i>Input/Output Parameter</i>			
<b>Function Definition:</b>						<i>No</i>	<i>Parameter Name</i>	<i>Structure /Class Name</i>	
<p>This program will open the report's SQL text file. Each report will have its own SQL file. The report ID will determine which file to use.</p> <ol style="list-style-type: none"> <li>1. Check to see the report SQL file exist in the server</li> <li>2. Instantiate VOReporSql.</li> <li>3. Save every line in the report SQL text file into a Vector field inside VOReporSql</li> <li>4. Replace parameter key to an actual value, by matching the parameter key with the htInputScreenValue and return the value.</li> <li>5. Return VOReporSql as ValueObject</li> </ol>						1	Filename	VOReporSql	
						2	SQL details	VOReporSql	
						3	BaselInfo (Ref)	ReportVO	
						4	Input Screen Info	BaselInfo	
						<b>Access Table</b>			
						<i>No</i>	<i>Table ID</i>	<i>Table Name</i>	<i>Record Length</i>
						1	None	SQL File	Not Fixed
						<b>Common Sub Program</b>			
						<i>No</i>	<i>Program ID</i>	<i>Program Name</i>	
						1	A0216C	Debug Mode Routine for Java	

**Input/Output Relation Diagram:**





<i>Document Name</i>	<i>Chapter in SDS</i>	<i>Project Name</i>	<i>System Name</i>	<i>Doc. Version</i>	<i>Update Date</i>	<i>Author</i>
<b>Program Function Definition</b>	<b>3.1.3</b>		<b>Industrial Design Administration System</b>			
<i>Program Name</i>		<i>Program ID</i>				<i>Page</i>
<b>Get Report Data</b>		<b>A0235L</b>				<b>34</b>

<i>PG Type</i>	<i>Core</i>	<i>PG Kind</i>	<i>Application S.</i>	<i>Development Language</i>	<i>Java</i>	<b>Input/Output Parameter</b>			
<b>Function Definition:</b>						<i>No</i>	<i>Parameter Name</i>	<i>Structure /Class Name</i>	
<p>The purpose of this program is to connect to Database, query the database and store the retrieved data into an array.</p> <ol style="list-style-type: none"> <li>1. Open a connection to the database</li> <li>2. Get SQL string from QueryVO and then query the database and retrieve for data.</li> <li>3. Each data column is iterated and saves into an array, which is called ResultDataSet.</li> <li>4. The array with the data column inside is saved into an array class, which is called ReportDataSet.</li> <li>5. Return the array class</li> </ol>						1	Column	QueryVO	
						2	Table	QueryVO	
						3	Condition	QueryVO	
						4	Vector class	ReportDataSet	
						<b>Access Table</b>			
						<i>No</i>	<i>Table ID</i>	<i>Table Name</i>	<i>Record Length</i>
						1	BM01	BMApplication	281
						2	BM02	BMIndustrialDesign	586
						3	BM03	BMReceipt	217
						4	BM04	BMRequest	376
						5	BS01	BSAddressBook	337
						6	BS02	BSAgent	662
						<b>Common Sub Program</b>			
						<i>No</i>	<i>Program ID</i>	<i>Program Name</i>	
						1	A0216C	Debug Mode Routine for Java	
<b>Input/Output Relation Diagram:</b>									
<pre> graph TD     A[All tables] --&gt; B[Get Report Data]     B --&gt; C[Report Data]   </pre>									

<i>Document Name</i>	<i>Chapter in SDS</i>	<i>Project Name</i>	<i>System Name</i>	<i>Doc. Version</i>	<i>Update Date</i>	<i>Author</i>
<b>Program Function Definition</b>	<b>3.1.3</b>		<b>Industrial Design Administration System</b>			
<i>Program Name</i>		<i>Program ID</i>				<i>Page</i>
<b>Format Sql Query</b>		<b>A0236L</b>				<b>35</b>

<i>PG Type</i>	Core	<i>PG Kind</i>	Application S.	<i>Development Language</i>	Java	<b>Input/Output Parameter</b>			
<b>Function Definition:</b>						<i>No</i>	<i>Parameter Name</i>	<i>Structure /Class Name</i>	
<p>This program is called by program Report. The purpose of this program is to reformat the SQL details it received by removing unwanted string such as curly braces, to form the correct SQL statement syntax.</p> <ol style="list-style-type: none"> <li>Retrieve the SQL string from VOReportSql.</li> <li>Base on the parameter key, e.g. columns, tables, and conditions, find it in array and return the key's value. Once found, remove all trailing spaces and curly braces.</li> <li>Return the string.</li> </ol>						1	SQL details	VOReportSql	
						2	Column	None	
						3	Table	None	
						4	Conditions	None	
						<b>Access Table</b>			
						<i>No</i>	<i>Table ID</i>	<i>Table Name</i>	<i>Record Length</i>
<b>Input/Output Relation Diagram:</b>						<b>Common Sub Program</b>			
<div style="border: 1px solid black; width: 150px; height: 40px; margin: 0 auto; display: flex; align-items: center; justify-content: center;"> <span>Format Sql Query</span> </div>						<i>No</i>	<i>Program ID</i>	<i>Program Name</i>	
						1	A0216C	Debug Mode Routine for Java	

<i>Document Name</i>	<i>Chapter in SDS</i>	<i>Project Name</i>	<i>System Name</i>	<i>Doc. Version</i>	<i>Update Date</i>	<i>Author</i>
Program Function Definition	3.1.3		Industrial Design Administration System			
<i>Program Name</i>		<i>Program ID</i>				<i>Page</i>
Report		A0237L				36

<i>PG Type</i>	<i>Core</i>	<i>PG Kind</i>	<i>Application S.</i>	<i>Development Language</i>	<i>Java</i>	<i>Input/Output Parameter</i>			
<b>Function Definition:</b>						<i>No</i>	<i>Parameter Name</i>	<i>Structure /Class Name</i>	
<p>This program will get the valid SQL string from the FormatSqlString and retrieve the data from the ReportDataSet</p> <ol style="list-style-type: none"> <li>1. Instantiate QueryVO</li> <li>2. Format SQL into valid SQL syntax and save it into QueryVO</li> <li>3. Call GetReportData to retrieve the ReportDataSet, in the form of ValueObject</li> <li>4. Return the ValueObject</li> </ol>						1	String Column	QueryVO	
						2	String Table	QueryVO	
						3	String Conditions	QueryVO	
						4	Vector SQL details	VOReportSql	
						5	Vector class	ReportDataSet	
						<b>Access Table</b>			
						<i>No</i>	<i>Table ID</i>	<i>Table Name</i>	<i>Record Length</i>
						<b>Common Sub Program</b>			
						<i>No</i>	<i>Program ID</i>	<i>Program Name</i>	
						1	A0216C	Debug Mode Routine for Java	
<b>Input/Output Relation Diagram:</b>									
