



*Perkhidmatan Penyelenggaraan Rangkaian Komputer Dan Server Selama Tiga (3) Tahun Untuk
Syarikat Air Darul Aman Sdn Bhd (SADA) - SADA/OM/QS/002/11/2/2024*

Report Period of 01/01/2026 - 30/06/2026

Date	Description
13/02/2026	SELF CARE - Created a routine to grab name of accounts replacing blank column in payment_detail table

id	payment_code	payment_id	accountno	accountname	amount	datamart
1200859	01	1199989	1100917625010		10.00	NULL
1200858	01	1199988	3100225549015	LEE MEE KUEN	7.93	2026-04-13 23:46:19
1200857	01	1199988	3100227297017	PATRICK PAUL BARNANAS	8.10	2026-04-13 23:46:19
1200856	01	1199987	4100849152013	MOHD NOR RAZEEMAN BIN ROSLI	70.23	2026-04-13 23:41:58
1200855	01	1199986	4100354604015	JATIM B LONG	46.40	2026-04-13 23:38:18
1200854	01	1199985	4100354604015	JATIM B LONG	46.40	NULL
1200853	01	1199984	3300334390011	MOHD ZAINON B AHMAD	8.10	2026-04-13 23:36:02
1200852	01	1199984	2100531540010	MOHD NHAFAZ BIN MOHD ZAINON	40.40	2026-04-13 23:36:02
1200851	01	1199983	1300784600015		91.00	2026-04-13 23:35:10
1200850	01	1199982	3100468562010		85.00	2026-04-13 23:35:35
1200849	01	1199981	2100628334015		73.70	2026-04-13 23:34:52
1200848	01	1199980	3100812647010		20.65	2026-04-13 23:33:16
1200847	01	1199979	3100212981011	ANNAMALAY A/L KUPUSAMY	23.60	2026-04-13 23:31:08
1200846	01	1199978	3100875116012	AQHILATUL FARAHIN BINTI MOHD ZAMRI	20.48	2026-04-13 23:30:27
1200845	01	1199977	1100792821018	FATIMAH BINTI YAKOB	71.25	2026-04-13 23:28:34
1200844	01	1199976	1100792821018	FATIMAH BINTI YAKOB	71.25	NULL
1200843	01	1199975	2100672408010	NUR AIN BINTI ABDUL HALIM	91.00	2026-04-13 23:27:56
1200842	01	1199974	3100454202012	WHONG POH CHOON	75.30	2026-04-13 23:27:30
1200841	01	1199973	2100181789012		25.10	2026-04-13 23:27:47
1200840	01	1199972	1200716351011	MOHD NORAZLAN B ABU BAKAR	235.25	NULL
1200839	01	1199971	1100064677017	MOHD ZAHIR B MOKHTAR	98.80	2026-04-13 23:23:50
1200838	01	1199970	2500312480014		118.80	2026-04-13 23:21:22
1200837	01	1199969	3100560867018	HASHIM BIN ABDUL AZIZ	14.60	2026-04-13 23:19:36
1200836	01	1199968	1200681301011	AZIZAH BINTI IBRAHIM	26.55	2026-04-13 23:19:58
1200835	01	1199967	3100560867018	HASHIM BIN ABDUL AZIZ	14.60	NULL

22/02/2026 Update firewall firmware from 25.07.1-RELEASE to 25.11.1-RELEASE

23/02/2026 Personnel Amri reported hrc.sada.com.my cannot be accessed through HTTPS. Attended to the config file and fix pronto.

```

root@hrc2-app:/etc/nginx/sites-enabled# systemctl status nginx.service
● nginx.service - A high performance web server and a reverse proxy server
   Loaded: loaded (/lib/systemd/system/nginx.service; enabled; vendor preset: enabled)
   Active: active (running) since Mon 2026-02-23 06:59:55 UTC; 1h 53min ago
     Docs: man:nginx(8)
  Process: 118262 ExecReload=/usr/sbin/nginx -g daemon on; master_process on; -s reload (code=exited, status=1/FAILURE)
 Main PID: 48673 (nginx)
    Tasks: 3 (limit: 4558)
   Memory: 12.2M
      CPU: 5.661s
   CGroup: /system.slice/nginx.service
           └─ 48673 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
             └─ 117995 "nginx: worker process"
               └─ 117996 "nginx: worker process"

Feb 23 08:48:03 hrc2-app systemd[1]: Reloading A high performance web server and a reverse proxy server...
Feb 23 08:48:03 hrc2-app systemd[1]: Reloaded A high performance web server and a reverse proxy server.
Feb 23 08:52:51 hrc2-app systemd[1]: Reloading A high performance web server and a reverse proxy server...
Feb 23 08:52:51 hrc2-app nginx[118250]: nginx: [emerg] duplicate location "/" in /etc/nginx/sites-enabled/sadahrc:12
Feb 23 08:52:51 hrc2-app systemd[1]: nginx.service: Control process exited, code=exited, status=1/FAILURE
Feb 23 08:52:51 hrc2-app systemd[1]: Reload failed for A high performance web server and a reverse proxy server.
Feb 23 08:53:22 hrc2-app systemd[1]: Reloading A high performance web server and a reverse proxy server...
Feb 23 08:53:22 hrc2-app nginx[118262]: nginx: [emerg] duplicate location "/" in /etc/nginx/sites-enabled/sadahrc:12
Feb 23 08:53:22 hrc2-app systemd[1]: nginx.service: Control process exited, code=exited, status=1/FAILURE
Feb 23 08:53:22 hrc2-app systemd[1]: Reload failed for A high performance web server and a reverse proxy server.

```

28/02/2026 Configured OAuth2 with PHPMailer so every email related to online payment would go to the account
sada.onlinepayment@sada.com.my via SMTP server smtp.office365.com.



Date Description

```
198 $mailconfig = [
199     "host" => "smtp.office365.com",
200     "webhost" => "mx.sada.my",
201     "username" => "sada.onlinepayment@sada.com.my",
202     "password" => "X^537409288330ac",
203     "secure" => "tls",
204     "port" => "587",
205     "clientid" => "935c807b-b9ab-44c9-b760-06a905751c0d",
206     "tenantid" => "83fd252-84b2-4fe5-bfb9-2af90efa6d25",
207     "clientsecret" => null,
208     "refreshToken" => "1.Ab44UvL9g7KE5U- uSr5DvptJXuAX3J0ruc1Et2AGqQV1HA0AAHK-AA.BQABAwEAAAADA0z_BQD0_0V2b1N0c0FydG1mYWN0cWIAAA
AAADgkLUjYwGZ_bk10vTE_9gbbVD21c2jM7hiNGEwcK8KAKXCEX7DPkzPJCr1DILL3bwzhnZz9EuQE59kmfghHrStouuW2TqmUb0rKmkV5U0708gnMN1
5WSuoVIK4DmAsz18iXJu1P4tNB2HL27pVv8zH_24HUWRPNVZuJ3Z-3Bp7CC5-4W84FUPBcmYmsTnsd1xHf7_trJsFRHKFg7YVoNG2KpJ-OTouD5c7Hx1t97
10Hs9JwqQ6gbyCwlnG7YcndTghAot4DdzefFisobx9FymTeRY7oyplVoCZX7PQzA8-4b4HUmDxVxF9A40kjoyTvroxmK05kUDsKjxw4ZrBR-CPPr4V52HXA155
fGv5QqNyr1rVokjv27CwZbHL2CceeA9IjJxhKGeFkVRvDu0i3XtZyTuiGRxEoT8TpACUX1f0tY1sMLW5qnBD1Gb_I6wIMJTPPERuTNEpuvOEzraQd96-BDZHy
ej6JU91QeFoYxbKA3cx7YkS28wIHR4015xsZ6B1fCNf3J1HXNkmpJmQ0V0eFvKAF_JDpf0BE5qGQapS2LR3nvxHjvNGZ2hh6xYMF0eF8JwaaJINz5KuE5x
9Vvk5TrooxPadj0zLJ44PF0BgLepN1RAfdqZ8a6W0FzFOKY_Z8H7-h2vkcQDWeYAP6x7A7t90anZ3XKo8TaccvMvM0Ep0Exa665KyLZ-PImlV0X0uGo8q4KNa
188uJhGnit_o0_JzLz0K_S3Q2F3a1vKXnEQgXpGmZWppM4v1_IDb1KMx4J6ncGFUwRxEOXY_yE4pTwSpB1IqXUgogmEByC3YDRK11K8wN1dKGCJq3U0f8aa
24hbZKXwJ4X00MpuypgYIYJoJh1GT5AuS8MyredZJ940o7ng1G_NvVnNcw6itWf11Jeh3_5E8J8Zu8PtuasZk0X1917EkkCiaC9itbv0_2412HmeaUNtbs
ReFQZkahLrdJpsuQ8wyebDnwKm0XROoxCSzhd38xvva1FKpC_9YBzrnQE6vru4HzxBqegcnj8LlvqgPJh6HSTUosjQ810GHR9LZLXUXYwOPCr9nPtCTPioYb
2nsUTaziek9PofmciGgZL_cTxDt6hApw1WooHk2AcBCsX0gJ4tvz4KwT5Y1EMs0FRB23ZMEpNkjStktZVZ3Yw9J5Uybg3HRAIyE8Mgs1J1Yn8HwXpZsz0Lx8
3huS94UF-_MFsC3CjM7wvZoeAb7Pp1kM7KnsY-AbFk5zKq2-WAoCUVAIjW1NP6ZUTdYZC5u0sIStXNV0E4X00-Sow80Uwbpx"
```

28/03/2026 DNS server hosted at 10.1.2.3 keeps crashing after altering records. Configured new DNS service on 10.1.2.7 (new primera) merged as shared services on the same server.

30/03/2026 Deployed both Primera and Selfcare onto the new server on 10.1.2.7

10/06/2026 Viola M2M transfer to SADA HQ. Configuration prepared as follows:

Sever IP: 10.1.2.90/91/92

Subnet:255.255.255.0

Gateway:10.1.2.1

DNS Server:10.1.2.4

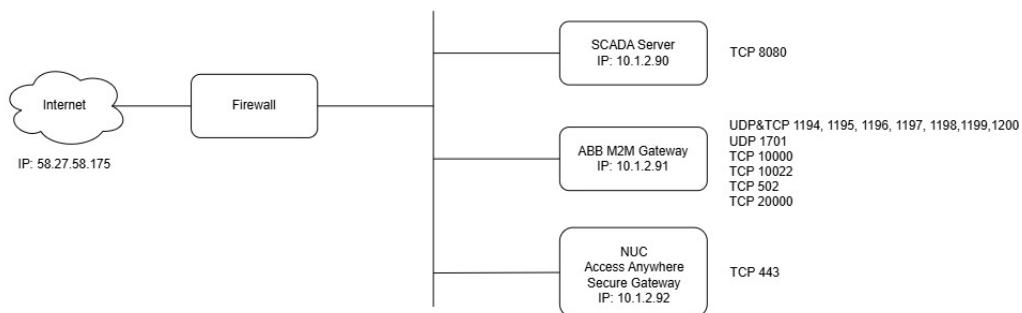
Public IP:58.27.58.175

10/06/2026 Request for M2M Server as attached



Date **Description**

58.27.58.175	>>>	10.1.2.91	58.27.58.175	>>>	10.1.2.92
ABB M2M Gateway			NUC (Access Anywhere Secure Gateway)		
Protocol	Port	Name	Protocol	Port	Name
UDP & TCP	1194	OpenVPN	TCP	443	Access Anywhere
UDP & TCP	1195		10.1.2.92 >>> 10.1.2.90		
UDP & TCP	1196		SCADA Server		
UDP & TCP	1197		Protocol	Port	Name
UDP & TCP	1198		TCP	8080	Access Anywhere
UDP & TCP	1199				
UDP & TCP	1200				
UDP	1701	L2TP-VPN			
TCP	10000	Web UI			
TCP	10022	Admin SSH CLI			
TCP	502	Modbus			
TCP	20000	DNP			



10/06/2026 Additional port requested to be configured at the firewall by M2M vendor.

58.27.58.175	>>>	10.1.2.91	58.27.58.175	>>>	10.1.2.92
ABB M2M Gateway			NUC (Access Anywhere Secure Gateway)		
Protocol	Port	Name	Protocol	Port	Name
TCP	22	SSH-VPN	TCP	443	Access Anywhere
UDP & TCP	1194	OpenVPN	10.1.2.92 >>> 10.1.2.90		
UDP & TCP	1195		SCADA Server		
UDP & TCP	1196		Protocol	Port	Name
UDP & TCP	1197		TCP	8080	Access Anywhere
UDP & TCP	1198				
UDP & TCP	1199				
UDP & TCP	1200				
UDP	1701	L2TP-VPN	10.1.2.91 >>> 10.1.2.90		
TCP	10000	Web UI	SCADA Server		
TCP	10022	Admin SSH CLI	Protocol	Port	Name
TCP	502	Modbus	TCP	502	Modbus
TCP	504	Modbus	TCP	504	Modbus
TCP	7003	Modbus	TCP	7003	Modbus
TCP	20000	DNP			