R5KMRPT - Responder Feature Server Installation Guide KI-2911

R5KMRPT Responder® 5000 Feature Server Installation Guide





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1: General Information

The Responder Feature Server (RFS) Application is a Web based application (part number: R5KMRPT) with different modules that allow facilities to enhance the Responder 5000 Nurse Call System in multiple ways. The Application provides customizable Activity Boards to caregivers for a clear view of the Responder 5000 (R5K) nurse call activities in real time on a unit or multiple unit basis. It provides room and patient management tools for operational support. A reporting module provides the longer-term picture (up to eighteen months) of the facility and the way nursing and patients' requests are met. Finally, an administration module provides a tool for user management and application customization.

Should you be new to configuring R5KMRPT Application or new to R5K, we strongly recommend that you:

1) familiarize yourself with the entire R5K product line (best explained in the Responder 5000 Configuration Guide and Responder 5000 Component Installation Guide) and

2) take the time to review and understand this entire document before attempting to configure any system.

Revision History



This is the "A" version of KI-2911.

Revision	Summary
0	- Initial release
А	 System TCP/UDP Ports SQL Express Installation IIS Setup PC Requirements Updated

Scope of this Document



Read this document if your duties include installing or maintaining the R5K Feature Server.

Customer Connection/Extranet





You can use Rauland's secure Customer Connection site to find, view, and/or download many support documents—including manuals, drawings, and reports. To request an account, follow the online instructions at: http://customerconnection.rauland.com.

Download the R5KMRPT Application Software from Rauland-Borg Customer Connection.

Alerts, Precautions, and Limitations



Observe the following alerts, precautions, and system limitations:

- ✓ R5KMRPT should be installed by the trained installer ONLY.
- R5KMRPT should be tested after installation before releasing product to the end-user/customer.
- ✓ Default R5KMRPT Username and Password should be changed after installation before releasing product to the end-user/customer.
- Activity Board is a secondary annunciation device and should not be used in place of a primary annunciation device.
- ✓ User should not run additional applications on the Activity Board client device to preclude other applications from preventing operation.
- ✓ System calls will not display on Activity Board during Responder Feature Server Data Module (R5KRSW) reboot.
- ✓ When displaying the Activity Board on a static display the OS and/or Web browser update may disrupt the displaying of calls until Web browser has been re-launched.
- ✓ Activity Board display fields should be double-checked to make sure

displaying the fields complies with HIPPA and local regulations.

- R5KRSW should be installed on a secure network to prevent unauthorized access.
- ✓ Reporting data is stored for a duration of 18 months from the date of occurrence. Data is automatically purged by the application after 18 months.

Related Documents



Other, related information can be found in the following documents:

- ✓ Responder 5000 Configuration Guide (KI-2908)
- ✓ Responder 5000 Component Installation Guide (KI-2907)
- ✓ Responder 5000 Software Application User Guide (KI-2910)

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2: Installation and First Steps

PC Requirements

In order to run the Responder Feature Server, you will need a Windows-based computer that meets or exceeds the following specifications:

- Quad Core CPU
- > 8 GB of RAM
- > 75 GB Free Hard Disk Space
- Ethernet 1000 Mbps port (for connection to R5K embedded system)
- Windows Server 2012 R2
- Microsoft .Net Framework version 3.5
- ➢ Microsoft .Net Framework version 4.5 or later
 - Use Windows Control Panel | Programs and Features to enable appropriate .Net Framework
- Internet Information Services (IIS) version 6.0 or later
 - Use Windows Control Panel | Programs and Features to enable IIS
- > MS SQL Server 2014 (Express edition with tools)
 - Download appropriate version of MS SQL from Microsoft Web site or
 - Connect RFS to the existing MS SQL

Requirements to run Client features:

- > 1024 x 768 or Better Video Resolution
- Web browser (one of the following)
 - Internet Explorer Version 11.0 or later
 - Chrome Version 58.0.xx or later
- Microsoft ExcelTM (to run Reports) Excel 2016 if RFS Reports will be displayed in Excel format

Adobe Acrobat Reader (to review manuals and install diagrams) – version 2017 - if RFS Reports will be displayed in Adobe format

Responder Feature Server Software Components

Responder Feature Server Application consists of the following application level components:

- The Activity Board module allows a user to view nurse call activity and service requests on any display(s) connected to LAN-enabled computers.
- The Reports module allows a user to generate and view customizable reports that reflect historical nurse call events.
- The Patient Details module allows facilities to manage patients by displaying a compact view of all patients within a facility.
- The Administration module allows an Administrator to manage users, create activity boards, and modify overall settings of the system.

RFS Application Components

R5KMRPT Application consists of the following software components:

- MS SQL Express MS SQL Server 2014 (Express edition with tools)
- ➢ R5KRSW App Service
- R5KRSW Service

Installing the Software

Unless you have specific reasons to make other installation choices, we strongly recommend using the defaults (folders, language, etc.). The folder choice will impact the location of future software updates. We also recommend that you exit all other programs before beginning the installation process.

To install the software

- 1 Run R5KMRPT Application Installation program.
 - You can access the setup routine via the Start menu (Start | Run | X:\R5KInstaller.exe [where X = the drive letter assigned to the location of the installation program]).

Name	Date modified	Туре	Size
\rm msi	11/10/2016 4:44 PM	File folder	
🕕 sql	11/10/2016 4:44 PM	File folder	
📗 SqlReferences	11/10/2016 4:44 PM	File folder	
Distribution.xml	11/10/2016 4:05 PM	XML File	1 KB
📄 license.txt	11/2/2016 1:28 PM	Text Document	14 KB
Microsoft.SqlServer.ConnectionInfo.dll	11/2/2016 1:28 PM	Application extens	150 KB
Microsoft.SQLServer ManagedDTS.dll	11/2/2016 1:28 PM	Application extens	358 KB
Microsoft.SqlServ r.Management.Sdk.Sfc	11/2/2016 1:28 PM	Application extens	442 KB
Microsoft.SqlSe ver.Smo.dll	11/2/2016 1:28 PM	Application extens	2,798 KB
Microsoft.Wro.Administration.dll	11/2/2016 1:28 PM	Application extens	112 KB
Product.xp1	11/10/2016 4:31 PM	XML File	4 KB
R5KInstaller.exe	11/9/2016 10:42 AM	Application	378 KB
R5KInstaller.exe.config	11/9/2016 10:46 AM	CONFIG File	5 KB
R5KInstaller.manifest	11/2/2016 1:28 PM	MANIFEST File	3 KB
R5KInstaller.pdb	11/9/2016 10:42 AM	PDB File	324 KB

Run as an administrator

Figure 1: R5KMRPT Application Installation Program

2 The InstallShield License Agreement (bearing the Responder Feature Server Data Module (R5KRSW) version number) will appear:

6	R5KRSW.Setup 1.0		- 0		x
6	License Agreement Please review entire license agreem Clicking [Next >] implies that you a	ent before proceeding accepted these terms.	ı.		
Software License Agreer	ment				^
This is a legal agreement product manufactured by Rauland agrees to licens software on the following	This is a legal agreement between Rauland-Borg Corporation (Rauland) and the purchaser of the hardware product manufactured by Rauland with which this software product is intended to function (LICENSEE). Rauland agrees to license to LICENSEE and LICENSEE agrees to license from Rauland this computer software on the following terms and conditions.				
All rights to the Respond software is protected by reserved. The LICENSE restrictions and limitation	er Software (Licensed Software) are owned the United States Copyright Laws and Intern E is granted a License to use the Licensed s:	by Rauland-Borg Corp ational Treaty provision Software only, subject	oration and ns. All righ to the follo	l the ts are wing	•
 Licensed Soft used to permit operation described by Rauland in Agreement shall also app acquire. The term Licen 	ware: The software provided in connection v of hardware products manufactured by Raul its published literature concerning its hardwa ylt o all enhancements of the Licensed Soft sed Software shall be deemed also to refer to	with this License Agree land as such operation are products. The term ware, which the LICEN to such enhancements	ment is to l is intende is of this ISEE may	be d and	3
You may install the Licensed Software on a single computer owned or leased by LICENSEE. You may not install the Licensed Software on more than a single machine without the written consent of Rauland even if you own or lease all of the machines. Providing the use of the Licensed Software in a computer service business, network, timesharing, multiple-CPU, or multiple-user arrangement to users who are not individually v				~	
Release R5KRpt Versior	n 1.01	Next >	Clo	se	

Figure 2: R5KMRPT Application Installation Program

- Agree to the license agreement and click on Next.
- 3 The R5KRSW Component Detection screen will appear.

5	R5KRSW.Setup 1.0	_ D X		
5	Component Detection The following components are included with this installer and already exist on this computer:			
Component	Included	Detected Installed		
R5KRSW DB App R5KRSW App Server R5KRSW Server	7 7.00.0000 7.00.0000			
<	III			
Already latest	Upgradeable	🔕 Not detecte		
- Alcody latest				

Figure 3: R5KMRPT Application Installation Program

> Verify the status of R5KRSW components and click on Next.

4 R5KRSW Setup screen will appear:

(7) R5KRSW.Setup 1.0 □ ×
What do you want to do? Choose an action. Some actions may be unavailable, depending on the components that you already have installed.
 Install R5KRSW Web App and Service
O Upgrade Update individual components to more recent versions.
O Configure Set-up connection strings, service user accounts,other config settings, etc.
O Remove Completely uninstall selected components from your system.
Ter Triat
iype: Uypicai 🗸
Release R5KRpt Version 1.01 < Back Next > Close

Figure 4: R5KMRPT Application Installation Program

- 5 Make one of the following selections and click on Next:
 - > Select "Install" if this is a first time software installation
 - Select "Update" if you wish to make updates to the already installed software
 - Select "Configure" if you want to remove or upgrade any of the software components or to change the install path
 - Select "Remove" if you wish to remove installed software

6 System Service selection screen will appear:

0	R5KRSW.Setup 1.0
6	Vhich server do you want to install? Choose servers. Server may be unavailable, depending on the components that you already have installed.
Database Server The Database Server h	ouses r5000 DB
R5KRSW Server R5KRSW Service	
Please specify the ins	tallation locaton of Application Server components on File System.
Application Server Folder	C:\Program Files (x86)\Rauland-Borg\
R5KRSW App Server R5KRSW WebApp	
Please specify the ins	tallation locaton of Application Server components on File System.
Application Server Folder	C:\Program Files (x86)\Rauland-Borg\
Release R5KRpt Version 1.01	< Back Next > Close

Figure 5: R5KMRPT Application Installation Program

- 7 Select desired services and its location(s) to be installed and click on Next.
 - Database Server/The Database Server houses r5000 DB checkbox refers to creating RFS database in MS SQL
- 8 If this is the first time installation r5000 database has to be created
 - R5KRSW Server (R5KRSW Service) is a service communicating with R5K system
 - R5KRSW App Server (R5KRSW App Service) is a service communicating with Web Server providing information to RFS Client
 - If this is the first time installation R5KRSW Service and R5KRSW App Service have to be installed.

9 System Components Requirements screen will appear:

(7) R5KRSW.Setup 1.0 □ ×
System components requirements Check to ensure each component shown below is installed.
Windows Server 2012 R2 Standard Server (64 bit) installed
NET Framework 4.6 installed
IIS version 8.5 installed
SQL Server 2014 RT (64 bit) installed
Release R5KRpt Version 1.01 < Back Next > Close

Figure 6: R5KMRPT Application Installation Program

> Verify if required system components are installed and click on Next

10 MS SQL setup screen will appear:

G R5KRSW.Se	tup 1.0 📃 🗖 🗙			
Configure Databases Specify host server, DB-owner login to create databases, and app-login to connect to them at run-time.				
SQL Server name (including instance): R5K-ALPHARPTS1\SQLEXPRESS Database owner SQL-login (this account must have ac member of 'dbcreator', 'serveradmin' or 'sysadmin' fixed create new and drop existing DBs):	Detected version: ccess to [master] database, and be a server roles to have permission to			
O Windows (integrated authentication):	R5K-ALPHARPTS1\ZiaulH			
 Standard (mixed mode), please enter: 	sa			
✓ Application Database: r5000				
SQL-login to be used by R5K Application Database:	r5kAdmin			
Release R5KRpt Version 1.01	ck Next > Close			

Figure 7: R5KMRPT Application Installation Program

- SQL Server name (including instance)" gives user an option selecting MS SQL engine. System scans for the existing MS SQL Servers.
- Select MS SQL Server R5KRSW will connect to and create RFS (r5000) database
- "Detected version" provides information about selected MS SQL Server
- Select MS SQL authentication method R5KRSW will use to connect to MS SQL Server
- Windows (integrated authentication) Uses the security features of Windows clients and servers. SQL Server validates the account name and password using the Windows principal token in the operating system. This means that the user identity is confirmed by Windows.
- Standard (mixed mode) When using SQL Server Authentication, logins are created in SQL Server that are not based on Windows user accounts. Both the user name and the password are created by using SQL Server and stored in SQL Serve
- Please refer to MS SQL Manuals for detailed description
- Click on Next

11 R5KRSW Web Configuration screen will appear:

0	R5KRSW.Setup 1.	0 – – ×
с [j]	onfigure R5KR5W Specify necessary elements	
Share on web-site:	[1] Default Web Site *:80::http	(Started)
Virtual folder name:	http://r5k-alpharpts1:80/	R5KReporting
Shortcut name:		R5KReporting.url
Using IIS Manager veri	fy that local IIS can host ASP.NET 4	4.0 applications:
1. If not already available, a Required file is <%windir%M	dd 'ASP.NET v4.0' web-service ext /licrosoft.NET\Framework\v4.0.303	ention, and allow it. 19∖aspnet_isapi.dll>.
2. Upon Setup completion of web-app.	confirm that proper ASP.NET version	n (4.0.30319) is selected for R5K
Release R5KRpt Version 1.01	< Back	Next > Close

Figure 8: R5KMRPT Application Installation Program

Responder Feature Server can use existing facility's Web site. We strongly recommend contacting facility's IT personnel and making changes for the entries below:

- "Share on web-site" provides an option of changing Web Site hosting RFS content
 - When "Typical" installation selected, this entry is disabled.
- "Virtual Folder" provides an option of changing directory hosting RFS content
 - When "Typical" installation selected, this entry is disabled.
- "Shortcut Name" (URL Alias) allows you to provide a more understandable name (URL) to the RFS content
 - When "Typical" installation selected, this entry is disabled.
- Click on Next



We recommend consulting changes with the site's IT personnel.

12 Installation Summary screen will appear:

(7) R5KRSW.Setup 1.0 ■ ■ ×	
Summary Review action summary before proceeding.	
INSTALL Database Server Database Server The Database Server houses r5000 DB R5KRSW Server R5KRSW Service R5KRSW Veptoe R5KRSW WebApp DB folder: C:\Program Files\Microsoft SQL Server\MSSQL12.SQLEXPRESS\MSSQL\DATA\ app-login:r5kAdmin R5KRSW UB App : r5000 DB Womer : sa Share as: http://r5k-alpharpts1:80/R5KReporting/ Shortcut name: R5KReporting.url	
Release R5KRpt Version 1.01 < Back Install Close	

Figure 9: R5KMRPT Application Installation Program

- Verify selected options are correct. If not click on Back to modify installation parameters.
- Click on Next
- 13 Setup verification screen will appear:

G R5KRSW.Setup 1.0	- 🗆	x
Finish Thank you for choosing Rauland-Borg! We look forward to help making your life an adventure		
Requested action completed successfully!	Vie	w log
INSTALL Database Server The Database Server houses r5000 DB R5KRSW Service R5KRSW Service R5KRSW WebApp DB folder:C:\Program Files\Microsoft SQL Server\MSSQL12.SQLEXPRESS\MSSQL\DATA\ app-login:r5kAdmin R5KRSW DB App : r5000 DB Owner : sa Share as: http://r5k-alpharpts1:80/R5KReporting/ Shortcut name: R5KReporting.url		<
Release R5KRpt Version 1.01	Clos	e

Figure 10: R5KMRPT Application Installation Program

R5K Configuration Software – System Options Settings

After successful installation, it is necessary to add R5KMRPT information to the system.

Open Responder 5000 Configuration Software (R5KWare) and navigate to "System Options" – "Servers & Email: tab:

IP Address (e.g., 192 168 12 1) or host name that	IP Address (e.g. 152 168 12 1) or host name
Head End devices will use to connect with the Responder Feature Server.	SP Server Address 152 102.1.111
RFS Server Address	SIP Voice Mail Time Out (seconds) 30
IS Network Softings The DNS network settings are only resoured when using a hoat name for the Server Location. These settings are used by the News Ebd devices	Audio Codec - Aluar (* - U-Law (*
Facility's Donain Name	Trouble Messages via Email
DNS Server IP Addresses (e.g., 197 50.0.20)	IP Address (e.g., 192.168,12.1) or host name of the Email Server
Pinary.	Mail Server Address
First Backup	E-mail Send To
Second Backup	Mail Server Domain:
Second Bachup	Mail Server Domain

Figure 11: System Options Editor (Time Triggers Tab)

In Responder Feature Server section enter IP Address or host name that Head End will use to connect to R5KRSW.

R5K Configuration Software Application Licenses

R5KMRPT Application requires R5KMRPT License.

To install R5KMRPT License

- 1 Generate Token needed to obtain product license.
 - Responder 5000 has to be fully configured in order to generate a Token

vare Version: v1.0	System Overview	Configuration Progress Check	klist
	Area / Room Overview Hardware Overview	Customize System	Complete
lity Name: New Site Manual	(The second resource)	Corridor Light Patterns	Г
tes.	E Cara - Area Area	Tones	Г
	Area2 - Area Area2	Priorities	E
-	_	Staff / Service Levels	E
		Call Escalation	Г
			omplete
		Areas	F
		Rooms	Г
		Action Bollom	Г
		Consoles	Г
		Zones / Units	E
		Coverage	Г
		SIP Devices	
		Marquees	E.
*		Head End Devices	E
		System Options	Г
17 I.		Compile Configuration	Г
nerate Token		Reports	Г
poly License	-	Online Interactions	Г
1			
	i		
invitio creeka:			

Figure 12: R5KWare Generate Token

- 2 Connect to Rauland-Borg License portal http://ordersconnection.rauland.com/instance2EnvAALogin/html/login.html
 - Provide Customer Number

RSK Verification				
A Import I = KARLAND-BORG CO Internet BOOTED - Marketing Isonothanal Account Internet Is DoLLARS	License Monogement Customor number:	Licens	se Portal	-
e cod Help? Meo recurrents		setnit		
wared by Rauland-Borg®				

Figure 13: Rauland-Borg License Portal

- 3 Select type of the R5K License
 - Make sure selected License includes R5KMRPT License

Rauland	Our Full Line Of Produc	ts To Fit Your Nee	ds			
Rees	Circo Profile	Erports		Linena Parta	in .	50pt 04
R5K Verification			License R5K Li	e Portal		
notional Account	Hospital Name	Address		City	State Co	attry
RENT DOLLARS	RAULAND ENG 67	1002 WEST CENTRI	L ROAD	HT. PROSPECT	n.	
	Modules Pur	chased Max Beds	Activation Ty	pe Status Version Activat	ion Date Activated I	by Action
ed Help?	RSK Appl RSKMRPT - RSK (EPORTS 1	Standard	Not Adživa		Generate
currents	#5K Inte	notions	Temporary	Not Active		Generalie
and of history ongo			Test	not Active		Generalite
	Done					Refresh

Figure 14: Rauland-Borg License Portal

4 Enter Token and click on Generate

Contract - Baltine - Britera - Bri	ion rauting comy in its not crise here were	Initial Advance - Anti-	O Chura Back - Crade L O Tana	undate Dares 11 Loops datab	O Dataset Database Carr
		•		the second s	
Rauland	Our Full Line Of Produ	cts To Fit Your Needs			
(Berra	Unit Postlin	Reports	Lineare P	dial .	Sign Off
RSK Verification		Lic	ense Portal		
DANS MALLAND DONG CO Sumer		R5H	Licenses		i i
00100 - Marketing continuel Account	Hospital Name	Address	City	State Country	
IOLLARS shower	RADLAND ENG 67	1802 WEST CENTRAL ROAD	MT, PROSPECT	R.	
	Modules Purc	hased Max Beds Activation	Type Status Version Active	tion Date Activated By Act	tion
ed Help?	ASKINGT - ASK R	Standerd PORTS 1	Active	Cenera	Ate
ice icuments				×	-
rered by Racland-BorpD	Licenso G	eneration			
	Yeraken:	¥1 •		Gener	ata -
	Token:			Generate	
	Done			2	ketresh
	100000				
	Close .				

Figure 15: Rauland-Borg License Portal

- > Portal can also send an email with the License code
- 5 Enter generated License in a Home Screen of R5KWare and click on Apply License

ere Version:	v1.02	System Overview	Configuration Progress Che	cklist
		Area / Room Overview Hardware Overview	Customize System	Complete
y Name:	Alpha2 Turkish	In Children 2	Corridor Light Patterns	E.
15		(H) 3 2 - Area 3	Tones	
oha Gold Co	DV e	🗈 🧱 🕰 Area 🕅	Prioritics	E
dated 7-Mar	-2017	A CONTRACTOR OF A	Staff / Service Levels	Π.
15Kisoftwa	reitesting\AllphaLab)		Call Escalation	Г
				Complete
			Areas	Г
			Rooms	Г
			Action Buttons	E
			Consoles	F
			Zones / Units	Г
			Coverage	E.
			SIP Devices	Γ.
			Marquees	E
			Head End Devices	Г
			System Options	Г
			Compile Configuration	Г
tte Token	10#5ReNZABIw/BdooXZg==		Reports	E.
icense	Z8DE 3N0V WHAY KNG2 XVD7 YY,		Online Interactions	Г
License:	VAUDLICENSE			
Linese		1.		
e License: Is License	VALIDLICENTE	<u> </u>		

Figure 16: R5KWare Apply License

Selecting Units to send to Responder Feature Server R5K Configuration Software Zones Settings

The RFS Application Reports and Activity Board groups rooms into "Units". Units are created in the R5K Configuration Software in the Zones Editor. Zones are used as a way to group Areas, Rooms, Beds into logical units for programming. All rooms in the ER can be grouped into an ER Zone or all the even number rooms could be grouped into an ER-Even Zone. A large system may have many zones created to make programming coverage easier. For the RFS Application to receive a Unit the Zone must be marked "Is Unit" in the Zones Editor. This allows only specific Zones to be sent to the RFS Application as a Unit. Zones can include items from other zones or include other zones. This allows custom Zones to be marked Units specifically for reports or you can mark existing Zones as Units to send the RFS Application.

Refer to KI-2908, Responder 5000 Configuration Guide for more information configuration Zones.

cisting Zones	Contents of - Zone Area 1		Available Zone Items	
Zoro None, to Unit Al Con Zone Jena 1	Area Area Area Room Picon 2 Area Area Room Room 3 Area Area Room Room 7 Area Area Area Room Picon 7	(48 Besh) (48 Besh) (48 Besh) (48 Besh) Bed 0	Area Area S Composed Area Area Area Boon Boon 2 Boon Boon 2 Boon Boon 3 Boon 3 B	

Figure 17: R5KWare Zone Editor

R5KMRPT Application Changing Default Port

The Responder Feature Server communicates with The Responder 5000 system R5KMSCs using default UDP port 5003. To change the UDP port follow these steps:

1 Open Responder 5000 Configuration Software and navigate to "System Options" – "Device Settings" – "Interconnection"

sponder 5000 System Options - New	Side:				100
X 😢 🙆					
rice Settings Time Options UL 1069	Time Triggers Servers & Em	al System - Other			
Unplugging			Console Behavior		
Bed Out (Feature Bed).	Cancelable	*	Console-to-Console Annunciation:	Console sonnant	
Cord Out (Pillow Speaker)	Cancelable	•	Escalation chain of calls from one console to another.		
Plug Out (Auxiliary Plug):	Cancelable	-	Console Non-Call Coverage Evaluation:	Patient	•
	***********		Determines range of Audio-Pages, Privacy Reviews, etc.		
Cord Out Delay: Check	k to allow 5 second grace p plug pillow speaker or featu	period re bed	Minimum Handset Audio Toning Priority	Urgent	
Plug Out Delay:			Priority level at or above which tones will sound while or	onsole handset	
Interconnection	Resconder Device		Minimum Speaker Audio Toning Priority:		
UDP Port Number: 2000	Host Name Prefix:	IMSC	Priority level at or above which tones will sound while sp	peaker is in use.	
TCP Port Number: 5003			Minimum Coverage Reporting Priority	Personnel	•
			Priority at or above which console annunciation is report	ted to Apps.	
Audio Page Multicast (225.0.0.0.239.2	ss 255,255) [2	225.0.0.0		Mute Timeout.	190
Audio Paging Quality-of-Service (DiffSe	rv) code (0-63):	0		OB-hook Dial Digits	0 •
External Phones			Station Behavior		
Phone keys places for setting servi	ce:		Prohibit 5	Speaker Transfer	Г
Key 1: TSP	• Key 3 IA	•	Supervision Failure		
Key 2: IL	Key 4 SE		Priority at or above which stations that go offline should place supervision-fail calls:	Code bleu	
			At threshold, place call at escalation chain:	Echec de la super	vision 💌
			At threshold + 1, place call at escalation chain:	Échec de la super	vision ·
Deler			At threshold + 2, place call at escalation chain:	Échec de la super	vision •
Priority: none •			Above, place call at escalation chain:	Echec de la super	• noisin

Figure 18: R5KWare System Options – Device Settings

- Change UDP Port Number
- 2 Compile Configuration File and Download to the system
- 3 Navigate to the default directory C:\Rauland-Borg\R5K_Facilities\xxxxxx (xxxxxx is the site name that you used in the R5KWare while creating the configuration)

- 4 Copy the R5KRpt.xml manually to the default directory of the R5KReportService C:\Program Files (x86)\Rauland-Borg\R5KRSW\R5KReportService
- 5 Please note that, if it's a first time R5KMRPT installation or the default UDP port number is changed the R5KRpt.xml file needs to be copied manually to the R5KReportService directory. However, if it's a software upgrade the R5KRpt.xml gets copied automatically to the R5KReportService directory provided the R5KRSW Service is running

R5KMRPT Configuration for a first time installation

For a first time R5KMRPT installation, the R5K.ReportingService.exe.config and the web.config files need to be edited in order to configure the R5KRSW Service and R5KRSW App-Service respectively.

Before start configuring the R5KRSW Service, installer should know the following information that are required to edit the R5K.ReportingService.exe.config.

- Host name of the Responder Feature Server
- Path of the R5K.ReportingService.exe (default path is C:\Program Files (x86)\Rauland-Borg\R5KRSW\R5KReportService)
- Path of the R5K.ReportingWebApp (default path is C:\Program Files (x86)\Rauland-Borg\R5KRSW\R5KReportWebApp)
- System email address and password (for sending Recurring reports; typically it's an administrator email)
- > Sender name to be displayed on email of the Recurring reports
- ➢ SMTP or SMTPS host URL name
- SMTP or SMTPS port number

For the R5KRSW App-Service configuration, the 'ServiceUri' parameter in the web.config file needs to set with the Responder Feature host name. This host name match be the same host name used in the R5K.ReportingService.exe.config.

Editing R5KMRPT Configuration files

Navigate to the directory containing R5KReportService

Default location is: C:\Program Files (x86)\Rauland-Borg\R5KRSW\R5KReportService\

\leftarrow \rightarrow \checkmark \uparrow \checkmark \rightarrow This PC \Rightarrow OS (C:)	Program Files (x86) > Rauland-Borg > R5KRSW > R5KReportService
R5K.ReportService.exe	MigraDoc.RtfRendering.dll
R5KRptDummy	PdfSharp.Charting.dll
R5K.ReportService.InstallState	PdfSharp.dll
SK.Config.dll	SpreadsheetLight.dll
R5K.Report.dll	Microsoft.AspNet.Identity.Core.dll
R5K.ReportScheduler.dll	Microsoft.AspNet.SignalR.Core.dll
R5K.ReportService	Microsoft.Owin.Cors.dll
SFK.CleanerTool.dll	Microsoft.Owin.dll
R5K.Device.dll	Microsoft.Owin.Host.HttpListener.dll
R5K.Persistence.dll	Microsoft.Owin.Hosting.dll
R5K.ServiceInterface.dll	Microsoft.Owin.Security.dll
R5K.UIService.dll	Microsoft.Owin.Security.OAuth.dll
R5K.DTO.dll	Newtonsoft.Json.dll
R5K.SharedLibrary.dll	Owin.dll
R5KRptConfigApp	System.Web.Cors.dll
🚾 R5KRpt	📕 Log
R5K.ReportService.exe.config.bak	📕 Images
R5KRptConfigApp.exe	
(177)	

Figure 19: R5KRSW Service directory

> Open *R5K.ReportingService.exe* (config) for editing

```
<?xml version="1.0" encoding="utf-8"?>
<configuration>
    <startup>
    <supportedRuntime version="v4.0" sku=".NETFramework,Version=v4.5.2" />
</startup>
    <connectionStrings>
       <add name="RSK.ConnectionString" connectionString="Data Source=ZIAULH2900\RSKRPTDB;Initial Catalog=r5000;Integrated Security=False;
User ID=rSkAdmin;Password=Passw0rd;Connect Timeout=10" />
    </connectionStrings>
    </connectionStrings>
<appSettings>
<add key= RSkConfig value="C:\tfs.rauland\DefaultCollection\R5K Reporting\R5K-International-NonRTL\R5KReportService\R5KRpt.xml" />
<add key= UdpListeningPortOffset" value="3" />
<l-- This offset value will be added to the port no. supplied by the R5KRpt.xml in order to
create an Lidh listening port for receiving transactions from MSCs and R5KWare-->
</a>
     create an Udp listening port fro. supplied by the R5KRpt.xml in order to
create an Udp listening port for receiving transactions from MSCs and R5KWare-->
<add key="R5kRwshiteHostLocation" value="C:\tfs.rauland\DefaultCollection\R5K Reporting\R5K-International-NonRTL\R5KReporting\R5K.WebUI\" />
<add key="RedUconnectionLostNotification" value="20" />
<add key="RudpConnectionLostNotification sends out to client browser -->
<add key="ClientSettingsProvider.ServiceUR" value="20" />
<|-- in seconds, a Rudp connection lost notification sends out to client browser -->
<add key="RecurringReportJobTime" value="200" />
<add key="RecurringReportJobTime" value="10200" />
<!--military time-->
<add key="CleanerGollobTime" value="1020" /></a>
       <!--LogLevel possible values : DebugData, Trace, Info, Warning, Error, Exception-->
<add key="LogLevel" value="Info" />
<!--Use proper email address-->
       <add key="EmailUserName" value="R5000dev@Rauland.com" /> <add key="NameToDisplay" value="R5KReport Admin" />
    <add key="NametoDisplay" Value="RskReport Admin" />
<(--Use proger password -->
<add key="EmailPassword value="r5000" />
<add key="SmtPhotUTI" value="x" />
<add key="SmtPhotUTI" value="x" />
<!--Provide the path where logging file is ought to be created, if "." or " " is specified then, logging file will be created in "~/bin/Debug/Log/" folder, which is the BaseDirectory.-->
<add key="LogFilePath" value="." />
<!--Time to generate reports should be mentioned in seconds.-->
<add key="AlertTimeToGenerateReport" value="30" />
</add key="AlertTimeToGenerateReport" value="30" />
</ad
    <runtime>
        <loadFromRemoteSources enabled="true" />
        <assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">
           cdependentAssembly>
<assemblyIdentAssembly>
<assemblyIdentity name="Microsoft.Owin" publicKeyToken="31bf3856ad364e35" culture="neutral" />
<bindingRedirect oldVersion="0.0.0.0-3.0.1.0" newVersion="3.0.1.0" />
            </dependentAssembly>
<dependentAssembly>
               <assemblyIdentity name="Microsoft.Owin.Security" publicKeyToken="31bf3856ad364e35" culture="neutral" />
            <br/><bindingRedirect oldVersion="0.0.0.0-3.0.1.0" newVersion="3.0.1.0" /></dependentAssembly>
            <dependentAssembly>
           </assemblyBinding>
<generatePublisherEvidence enabled="false" />
    </runtime>
 </configuration>
```

Figure 20: R5K.ReportService.exe.config file

- Edit the configuration parameters as shown in the red colors of the above figure
- Save the R5K.ReportService.exe.config file

Navigate to the directory containing R5KReportWebApp

Default location is: C:\Program Files (x86)\Rauland-Borg\R5KRSW\R5KReportWebApp\

$\leftarrow \rightarrow \checkmark \uparrow \downarrow \rangle$ This PC \rightarrow OS (C	E:) > Program Files (x86) > Rau	lland-Borg > R5KRSW	/ > R5KReportWebApp
Name	Date modified	Туре	Size
📕 app	5/12/2017 12:31 PM	File folder	
ReportDownloadFolder	5/12/2017 12:31 PM	File folder	
📕 bin	5/12/2017 12:31 PM	File folder	
📕 Content	5/12/2017 12:31 PM	File folder	
📕 fonts	5/12/2017 12:31 PM	File folder	
📕 scripts	5/12/2017 12:31 PM	File folder	
🖹 KI2910	2/14/2017 11:12 A	PDF File	200 KB
Web.config.bak	4/18/2017 5:07 PM	BAK File	3 KB
🗢 favicon	5/5/2017 3:32 PM	lcon	61 KB
🚚 Global	5/5/2017 3:32 PM	ASP.NET Server A	1 KB
e index	5/5/2017 3:32 PM	HTML File	12 KB
e login	5/5/2017 3:32 PM	HTML File	4 KB
📄 packages	5/5/2017 3:32 PM	XML Configuratio	3 KB
Readme	5/5/2017 3:32 PM	Text Document	1 KB
📄 Web	5/5/2017 3:32 PM	XML Configuratio	3 KB

Figure 21: R5K.ReportWebApp directory

> Open *web.config* for editing

```
<?xml version="1.0"?>
<!--
 For more information on how to configure your ASP.NET application, please visit
 http://go.microsoft.com/fwlink/?LinkId=301879
 -->
<configuration>
 <appSettings
<appSettings
<adb key=
ServiceUri
value="http://localhost:9191" />
<adb key=
webpages:Version" value="3.0.0.0" />
<adb key="webpages:Enabled" value="false" />
  <add key="ClientValidationEnabled" value="true" />
  <add key="UnobtrusiveJavaScriptEnabled" value="true" />
 </appSettings>
 <system.webServer>
  <staticContent>
    <remove fileExtension=".json" />
    <mimeMap fileExtension=".json" mimeType="application/json" />
    <remove fileExtension=".woff" />
    <mimeMap fileExtension=".woff" mimeType="application/font-woff" />
  </staticContent>
 </system.webServer>
 <!--
  For a description of web.config changes see http://go.microsoft.com/fwlink/?LinkId=235367.
  The following attributes can be set on the <httpRuntime> tag.
    <system.Web>
     <httpRuntime targetFramework="4.5.2" />
    </system.Web>
 -->
 <system.web>
  <compilation debug="true" targetFramework="4.5.2"/>
  <httpRuntime targetFramework="4.5"/>
 </system.web>
 <system.webServer>
  <defaultDocument>
   <files>
    </files>
  </defaultDocument>
  <handlers>
    <remove name="ExtensionlessUrlHandler-Integrated-4.0"/>
    <remove name="OPTIONSVerbHandler"/>
    <remove name="TRACEVerbHandler"/>
    <add name="ExtensionlessUrlHandler-Integrated-4.0" path=""." vorb=""" type="System.Web.Handlers.TransferRequestHandler" preCondition="integratedMode,runtimeVersionv4.0"/>
  </handlers>
 </system.webServer>
 <runtime>
  <assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1">
    <dependentAssembly>
     <assemblyIdentity name="System.Web.Helpers" publicKeyToken="31bf3856ad364e35"/>
     <br/>
<bindingRedirect oldVersion="1.0.0.0-3.0.0.0" newVersion="3.0.0.0"/>
    </dependentAssembly>
    <dependentAssembly>
     <assemblyIdentity name="System.Web.Mvc" publicKeyToken="31bf3856ad364e35"/>
     <br/>
<bindingRedirect oldVersion="1.0.0.0-5.2.3.0" newVersion="5.2.3.0"/>
    </dependentAssembly>
    <dependentAssembly>
     <assemblyIdentity name="System.Web.WebPages" publicKeyToken="31bf3856ad364e35"/>
     <br/>
<br/>
direct oldVersion="1.0.0.0-3.0.0.0" newVersion="3.0.0.0"/>
    </dependentAssembly>
  </assemblyBinding>
 </runtime>
</configuration>
                                                                        Figure 22: web.config file
```

Edit the "ServiceUri" field

- Save the web.config file
- Start the R5K.ReportService from Window Services

9			Services			
File Action View	v Help					
🗢 🔿 📅 🔯	Q 🔒 🛛 📷 🕨 🖩 II 🕨 👘					
Services (Local)	Services (Local)					
	R5K.ReportService	Name	Description	Status	stantup type	LOG OT AS
		R5K.ReportService	Processes messages coming from devices and sup	Running	Automatic	Local Syste
	Stop the service	Sen Remote Access Auto Connecti	Creates a connection to a remote network whenev		Manual	Local Syste
	Restart the service	Remote Access Connection Ma	Manages dial-up and virtual private network (VPN)		Manual	Local Syste
		Remote Desktop Configuration	Remote Desktop Configuration service (RDCS) is re	Running	Manual	Local Syste
	Description:	Remote Desktop Connection Br	Enables a user connection request to be routed to	Running	Automatic	Network S
	Processes messages coming from	Remote Desktop Management	Management Service for Remote Desktop Services	Running	Automatic (D	Network S
	devices and supports R5K WebApp	Remote Desktop Services	Allows users to connect interactively to a remote c	Running	Manual	Network S
		Remote Desktop Services User	Allows the redirection of Printers/Drives/Ports for	Running	Manual	Local Syste
		Remote Packet Capture Protoc	Allows to capture traffic on this machine from a re		Manual	Local Syste

Figure 23: Starting R5K.ReportService

R5KMRPT Configuration for a Software Upgrade

After successful R5KMRPT software upgrade, start the R5K.ReportSerice from Window Services.

3

3: Accessing Application Software

R5KMRPT Application clients can access R5K via browsers installed on Client PCs, Macs, and iPads.

Responder Feature Server Client Requirements

R5KMRPT Application client supports the following Web browsers and needs the following applications:

- Web browser
 - Internet Explorer Version 11.0 or later
 - Chrome Version 58.0.xx or later
- Microsoft ExcelTM (to run Reports) Excel 2016 if RFS Reports will be displayed in Excel format on the Client computer
- Adobe Acrobat Reader (to review manuals and install diagrams) version 2017 - if RFS Reports will be displayed in Adobe format on the Client computer

Accessing the Software

To use any of the modules that comprise the R5KMRPT Application, a Web link shall be provided to you, and you must have permission to log into the system.

To Sign In:

- 1 Open a Web browser and navigate to the link provided by your Administrator:
 - ➤ The Log In screen will appear:

Rouland	
Responder 5000	
Username	
Utenume	
Password	
Passeord	
Sign in	
	Responder 5000 Username Username Password Password Suph

Figure 24: R5KMRPT Application Sign in Screen

- 2 Enter your username and password.
 - Software is installed with a Default Username "r5kuser" and a default Password – "r5kuser".
 - If you do not know your Username or Password, consult your system administrator.
 - If you are using a touchscreen display, you may use the on-screen keyboard to make your entry.
- 3 Click on the Sign In button to continue.

To Sign Out:

1 Click on the Sign Out button in the My Profile module:



Figure 25: R5KMRPT Application Sign out Screen

Navigate between modules of the application

To access a specific module of the R5KMRPT Application you have to interact Main with the Navigation located the top of each at page. Rauland Responder 5000 Reports Activity Board Patient Details Administration

Figure 26: Application Main Navigation

By clicking on a desired module name the application will directed you to the specific module.

Navigate between features of a module

Each module has one or more features available for users to interact with. For example, the Reports module offers five reports, the recurring reports feature and report templating list view. A user can navigate between these features by:

- 1 Clicking on Reports Module name located on the at the top of each page.
- 2 Clicking on the desired report/feature (e.g. Detailed Call Data by Unit Report) situated on the left side of the screen.
- 3 The Detailed Call Data by Unit Report screen will be loaded.



Figure 27: R5KMRPT Application Detail Call Data by Unit

Other Things You Should Know

The Reports Software Application emails Recurring Reports at 2:00 AM (local time of the Responder Feature Server)

4

4: Network Ports Used In Reports Software Application

Due to security concerns and to protect facilities personnel from undesirable network traffic, a majority of facilities have implemented Fire Walls on their networks. However, Firewalls close certain TCP/IP ports to achieve this purpose. The Responder Feature Server Application requires specific network ports to be open. If the ports below are closed the facilities' IT department may open them up for the specific IP addresses assigned to the Reports Software Application components.



We recommend consulting Firewall changes with the site's IT personnel.

Below is the list of network (TCP/UDP) ports required for the proper setup and operation of Reports Software Application:

Port	TCP/UDP	Direction	Comments
5003	UDP	Outbound	This port is used to communicate with embedded side of R5K. In an event the port assignment is changed it is necessary to manually copy R5KRpt.xml file from R5KWare and after that restart R5K.Report Service.
5006	UDP	Inbound	This port is created using an offset value of three (3) as a default. Whatever port is used in R5KRpt.xml the R5K.Report Service adds the offset value to create this listening port. The offset value is configured in the R5K.ReportService.exe.config
9191	ТСР	Inbound + Outbound	Keeping persistence connection as well as sending data/notifications to R5kWebApp (client browser) from R5KRpt Service
80	ТСР	Inbound	HTTP Port
69	UDP	Inbound + Outbound	TFTP (Trivial File Transfer Protocol)
			SMTP (Simple Mail Transfer Protocol) or SMTPS (Simple Mail Transfer Protocol Secure)
25	ТСР	Outbound	Port 25 is used as a default for SMTP. If facility uses different Port please remember to include new Port information in <i>R5K.ReportingService.exe</i> (config) as well.
5003, 5004	TCP, UDP	Inbound + Outbound	R5KWare Application exceptions for both ports is required for communications with system.

The following represents the typical configuration requirements for the R5K Reporting Software Application UDP and TCP Inbound/Outbound port configuration rules for the Windows Firewall on a Microsoft Windows Server 2012 R2.

> Open Windows Firewall (Windows Control Panel)

P	Windows Firewa	all 📜 🗖 🚬	
💮 = 🕆 🔐 🛛 Contro	Panel + System and Security + Windows Firewall	V C Search Control Panel P	
Control Panel Home	Help protect your PC with Windows	Firewall	
Allow an app or feature through Windows Firewall	Windows Firewall can help prevent hackers or n Internet or a network.	nalicious software from gaining access to your PC through the	
Change notification settings	Domain networks	Connected 🔿	
Turn Windows Firewall on or off	II on or Networks at a workplace that are attached to a domain		
Restore defaults	Windows Firewall state:	On	
Advanced settings Troubleshoot my network	Incoming connections:	Block all connections to apps that are not on the list of allowed apps	
	Active domain networks:	Se TSE-R5EAD.NET	
	Notification state:	Do not notify me when Windows Firewall blocks a new app	
	Private networks	Not connected 🕑	
See also	Guest or gublic networks	Not connected 🕑	
Action Center			
Network and Sharing Center			

Figure 28: Windows Firewall

TCP Inbound Ports

Click on Advanced settings and select Inbound Rules

@	Windows Firewall with A	dvanced Security			- 0	X
<u>File Action View H</u> elp						
🗢 🌒 🙇 📰 🕒						
P Windows Firewall with Advance	Inbound Rules					
🧱 Inbound Rules	Name	Group	Profile	Enabled	Action	Over
Cutbound Rules	SMC Service		Domain	Yes	Allow	No
Manifesting	SMC Service		Domain	Yes	Allow	No
	SNAC Service		Domain	Yes	Allow	No
	SNAC Service		Domain	Yes	Allow	No
	BranchCache Content Retrieval (HTTP-In)	BranchCache - Content Retr	All	No	Allow	No
	BranchCache Hosted Cache Server (HTT	BranchCache - Hosted Cach	All	No	Allow	No
	BranchCache Peer Discovery (WSD-In)	BranchCache - Peer Discove	All	No	Allow	No
	COM+ Network Access (DCOM-In)	COM+ Network Access	All	No	Allow	No
	OM+ Remote Administration (DCOM-In)	COM+ Remote Administrati	All	No	Allow	No
	🔇 Core Networking - Destination Unreacha	Core Networking	All	Yes	Allow	No
	🔇 Core Networking - Destination Unreacha	Core Networking	All	Yes	Allow	No
	🔇 Core Networking - Dynamic Host Config	Core Networking	All	Yes	Allow	No
	🖉 Core Networking - Dynamic Host Config	Core Networking	All	Yes	Allow	No
	🔇 Core Networking - Internet Group Mana	Core Networking	All	Yes	Allow	No
	🕑 Core Networking - IPHTTPS (TCP-In)	Core Networking	All	Yes	Allow	No
	🔇 Core Networking - IPv6 (IPv6-In)	Core Networking	All	Yes	Allow	No
	🔇 Core Networking - Multicast Listener Do	Core Networking	All	Yes	Allow	No
	🔇 Core Networking - Multicast Listener Qu	Core Networking	All	Yes	Allow	No
< III >	<					>

Figure 29: TCP Inbound Setup

> Right-click on Inbound Rules and click on "New Rule" to launch the wizard

@	New Inbound Rule Wizard	x
Rule Type Select the type of firewall rule to c	reate.	
Steps: Protocol and Ports Action Profile Name	What type of rule would you like to create? Program Rule that controls connections for a program. P pd Rule that controls connections for a TCP or UDP port. Predefined: BranchCache - Content Retrieval (Uses HTTP) Rule that controls connections for a Windows experience. Quatom Custom rule.	

Figure 30: TCP Inbound Setup

Select "Port" and click on "Next" under "Rule Type"

<i>2</i>	New Inbound	Rule Wizard	x
Protocol and Ports			
Specify the protocols and ports to	which this rule applies.		
Steps:			
Rule Type	Does this rule apply to TCP or UD	P?	
Protocol and Ports	• <u>T</u> CP		
 Action 	о <u>u</u> dp		
 Profile 			
Name	Does this rule apply to all local por	ts or specific local ports?	
	O All local ports		
	Specific local ports:	80, 5003, 5004, 9191	
		Example: 80, 443, 5000-5010	
		< Back Next > Cancel	

Figure 31: TCP Inbound Setup

- ➢ Select "TCP" and "Specific local ports"
- ▶ Enter "80, 5003, 5004, 9191" into the field.
- ➢ Click on "Next"

@	Rew Inbound Rule Wizard		
Action Specify the action to be taken wh	en a connection matches the conditions specified in the rule.		
Specify the action to be taken wh Steps: Protocol and Ports Action Profile Name	en a connection matches the conditions specified in the rule. What action should be taken when a connection matches the specified conditions? (e) Allow the connection This includes connections that are protected with IPsec as well as those are not. () Allow the gonnection if it is secure This includes only connections that have been authenticated by using IPsec. Connections will be secured using the settings in IPsec properties and rules in the Connection Security Rule node. Customize Biocks the connection		
	< <u>B</u> ack <u>N</u> ext > Cancel		

Figure 32: TCP Inbound Setup

Select "Allow the connection" and click "Next"

@	New Inbound Rule Wizard	x
Profile		
Specify the profiles for which this r	rule applies.	
Steps:	When does this a le analy?	
 Rule Type Protocol and Ports 	When does all share apply :	
 Action 	✓ Domain	
Profile	Applies when a computer is connected to its corporate domain.	
Name	✓ Private Apples when a computer is connected to a private network location, such as a home or work place. ✓ Public Applies when a computer is connected to a public network location.	

Figure 33: TCP Inbound Setup

> Check "Domain", "Private" and "Public" options and click "Next"

@	New Inbound Rule Wizard	x
Name		
Specify the name and description of	this rule.	
Steps:		
Rule Type		
Protocol and Ports		
Action		
Profile		
Name	R5K TCP Inbound Ports	
	Description (optional):	
	< <u>B</u> ack <u>Fi</u> nish Canc	el

Figure 34: TCP Inbound Setup

Enter name for the newly created rule. For example, "R5K TCP Inbound Ports" and click on "Finish"

UDP Inbound Ports

Click on Advanced settings and select Inbound Rules

2	Windows Firewall with A	dvanced Security				i X
<u>File Action View H</u> elp						
🗢 🔿 🙍 🖬 🔒 👔						
🔐 Windows Firewall with Advance	Inbound Rules					
🗱 Inbound Rules	Name	Group	Profile	Enabled	Action	Over
Cutbound Rules	R5K TCP Inbound Ports		All	Yes	Allow	No
Connection Security Rules	SMC Service		Domain	Yes	Allow	No
Monitoring	SMC Service		Domain	Yes	Allow	No
	SNAC Service		Domain	Yes	Allow	No
	SNAC Service		Domain	Yes	Allow	No
	BranchCache Content Retrieval (HTTP-In)	BranchCache - Content Retr	All	No	Allow	No
	BranchCache Hosted Cache Server (HTT	BranchCache - Hosted Cach	All	No	Allow	No
	BranchCache Peer Discovery (WSD-In)	BranchCache - Peer Discove	All	No	Allow	No
	COM+ Network Access (DCOM-In)	COM+ Network Access	All	No	Allow	No
	OCM+ Remote Administration (DCOM-In)	COM+ Remote Administrati	All	No	Allow	No
	Ore Networking - Destination Unreacha	Core Networking	All	Yes	Allow	No
	Ore Networking - Destination Unreacha	Core Networking	All	Yes	Allow	No
	Ocre Networking - Dynamic Host Config	Core Networking	All	Yes	Allow	No
	Ore Networking - Dynamic Host Config	Core Networking	All	Yes	Allow	No
	🕜 Core Networking - Internet Group Mana	Core Networking	All	Yes	Allow	No
	🕜 Core Networking - IPHTTPS (TCP-In)	Core Networking	All	Yes	Allow	No
	🕜 Core Networking - IPv6 (IPv6-In)	Core Networking	All	Yes	Allow	No
	🖉 Core Networking - Multicast Listener Do	Core Networking	All	Yes	Allow	No
< III >	< III					>

Figure 35: UDP Inbound Setup

> Right-click on Inbound Rules and click on "New Rule" to launch the wizard

@	New Inbound Rule Wizard		
Rule Type Select the type of firewall rule to c	xreate.		
Steps: Protocol and Ports Action Profile Name	What type of rule would you like to create? Program Rule that controls connections for a program. • Pgt Rule that controls connections for a TCP or UDP pot. • Prgdefined: BranchCache - Content Retrieval (Uses HTTP) Rule that controls connections for a Windows experience. O Lostom Custom rule.		

Figure 36: UDP Inbound Setup

Select "Port" and click on "Next" under "Rule Type"

@	New Inbound	Rule Wizard	x
Protocol and Ports			
Specify the protocols and ports to	which this rule applies.		
Steps:			
Rule Type	Does this rule apply to TCP or UE	PP?	
Protocol and Ports	О <u>т</u> ср		
 Action 	<u>UDP</u>		
Profile			
Name	Does this rule apply to all local po	ints or specific local ports?	
	O All local ports		
	Specific local ports:	69, 5003, 5004, 5006	
		Example: 80, 443, 5000-5010	
		< Back Next > Cancel	
			_

Figure 37: UDP Inbound Setup

- ➢ Select "UDP" and "Specific local ports"
- ▶ Enter "69, 5003, 5004, 5006" into the field.
- ➢ Click on "Next"

@	New Inbound Rule Wizard
Action Specify the action to be taken whe	en a connection matches the conditions specified in the rule.
Steps: Protocol and Ports Action Profile Name	What action should be taken when a connection matches the specified conditions? O Low the connection This includes only connections that are protected with IPsec as well as those are not. O More the connection if is secure This includes only connections there an authenticated by using IPsec. Connections sub take secured using the settings in IPsec properties and rules in the Connection Security rule node. Customize O Bock the connection

Figure 38: UDP Inbound Setup

➢ Select "Allow the connection" and click "Next"

Profile Specify the profiles for which this rule applies.	
Store	
Rule Type When does this rule apply? Protocol and Ports ✓ Domain Action ✓ Divate Applies when a computer is connected to its corporate domain. ✓ Private Applies when a computer is connected to a private network location, such as a home or work place. ✓ Pyblic Applies when a computer is connected to a public network location. ✓ Pyblic Applies when a computer is connected to a public network location. ✓ Cancel	

Figure 39: UDP Inbound Setup

> Check "Domain", "Private" and "Public" options and click "Next"

@	New Inbound Rule Wizard	x
Name		
Specify the name and description	n of this rule.	
Steps:		
Rule Type		
Protocol and Ports		
 Action 	Name	
 Profile 	R5K UDP Inbound Ports	
Name	Description (actional):	
	Description (optional).	
	< <u>B</u> ack <u>F</u> inish Cancel	

Figure 40: UDP Inbound Setup

Enter name for the newly created rule. For example, "R5K UDP Inbound Ports" and click on "Finish"

TCP Outbound Ports

Click on Advanced settings and select Inbound Rules

@	Windows Firewall with A	dvanced Security				I X
<u>File Action View H</u> elp						
🗢 🄿 🙍 🖬 🖾 👘						
Here Windows Firewall with Advance	Outbound Rules					
🗱 Inbound Rules	Name	Group	Profile	Enabled	Action	Over
Cutbound Rules	BranchCache Content Retrieval (HTTP-O	BranchCache - Content Retr	All	No	Allow	No
Connection Security Rules	BranchCache Hosted Cache Client (HTT	BranchCache - Hosted Cach	All	No	Allow	No
	BranchCache Hosted Cache Server(HTTP	BranchCache - Hosted Cach	All	No	Allow	No
	BranchCache Peer Discovery (WSD-Out)	BranchCache - Peer Discove	All	No	Allow	No
	Ocore Networking - DNS (UDP-Out)	Core Networking	All	Yes	Allow	No
	Ocore Networking - Dynamic Host Config	Core Networking	All	Yes	Allow	No
	Ocore Networking - Dynamic Host Config	Core Networking	All	Yes	Allow	No
	Ocore Networking - Group Policy (LSASS	Core Networking	Domain	Yes	Allow	No
	Ocore Networking - Group Policy (NP-Out)	Core Networking	Domain	Yes	Allow	No
	Ocore Networking - Group Policy (TCP-O	Core Networking	Domain	Yes	Allow	No
	🕑 Core Networking - Internet Group Mana	Core Networking	All	Yes	Allow	No
	🕑 Core Networking - IPHTTPS (TCP-Out)	Core Networking	All	Yes	Allow	No
	🕜 Core Networking - IPv6 (IPv6-Out)	Core Networking	All	Yes	Allow	No
	🕜 Core Networking - Multicast Listener Do	Core Networking	All	Yes	Allow	No
	🕑 Core Networking - Multicast Listener Qu	Core Networking	All	Yes	Allow	No
	🕑 Core Networking - Multicast Listener Rep	Core Networking	All	Yes	Allow	No
	🕜 Core Networking - Multicast Listener Rep	Core Networking	All	Yes	Allow	No
	Ocore Networking - Neighbor Discovery A	Core Networking	All	Yes	Allow	No
< III >	< 111					>

Figure 41: TCP Outbound Setup

> Right-click on Outbound Rules and click on "New Rule" to launch the wizard

@	New Outbound Rule Wizard		
Rule Type Select the type of firewall rule to create.			
Steps: Protocol and Ports Action Profile Name	What type of rule would you like to create? Program Rule that controls connections for a program. Prografined Prografined Mule that controls connections for a TCP or UDP port. Prografined Mule that controls connections for a TCP or UDP port. Prografined Mule that controls connections for a Windows experience. Quastion Cancel		

Figure 42: TCP Outbound Setup

Select "Port" and click on "Next" under "Rule Type"

@	New Outbound	Rule Wizard	x
Protocol and Ports			
Specify the protocols and ports to	which this rule applies.		
Steps:			
Rule Type	Does this rule apply to TCP or UDF	??	
Protocol and Ports	• <u>T</u> CP		
 Action 	○ <u>U</u> DP		
 Profile 			
Name	Does this rule apply to all remote po	orts or specific remote ports?	
	O All remote ports		
	Specific remote ports:	25, 5003, 5004, 9191	
		Example: 80, 443, 5000-5010	
		< Back Next > Cancel	

Figure 43: TCP Outbound Setup

- ➢ Select "TCP" and "Specific local ports"
- ▶ Enter "25, 5003, 5004, 9191" into the field.
- ➢ Click on "Next"

<i>2</i>	New Outbound Rule Wizard				
Action Specify the action to be taken whe	Action Specify the action to be taken when a connection matches the conditions specified in the rule.				
Steps: Protocol and Ports Action Profile Name	What action should be taken when a connection matches the specified conditions? Image: Contract Contrect Contrect Contract Contrect Contract Contract Cont				

Figure 44: TCP Outbound Setup

➢ Select "Allow the connection" and click "Next"

@	New Outbound Rule Wizard	×
Profile Specify the profiles for which this	rule applies.	
Steps: Protocol and Ports	When does this rule apply?	
ActionProfile	Domain Applies when a computer is connected to its corporate domain.	
Name	 ✓ Private Applies when a computer is connected to a private network location, such as a home or work place. ✓ Public Applies when a computer is connected to a public network location. 	

Figure 45: TCP Outbound Setup

> Check "Domain", "Private" and "Public" options and click "Next"

@	New Outbound Rule Wizard	x
Name		
Specify the name and description of	this rule.	
Steps:		
Rule Type		
Protocol and Ports		
Action		
Profile	Name: R5K TCP Outbound Ports	
Name		
	Description (optional):	
	< <u>B</u> ack <u>F</u> inish Cance	đ

Enter name for the newly created rule. For example, "R5K TCP Outbound Ports" and click on "Finish"

UDP Outbound Ports

Click on Advanced settings and select Outbound Rules

Windows Firewall with Advance	Outbound Rules	_	_	-		-	
E Inbound Rules	Name	Group	*	Profile	Enabled	Action	Ove
Cutbound Rules	R5K TCP Outbound Ports			All	Yes	Allow	No
Connection Security Rules	BranchCache Content Retrieval (HTTP-O	BranchCache	- Content Retr	All	No	Allow	No
Monitoring	BranchCache Hosted Cache Client (HTT	BranchCache	- Hosted Cach	All	No	Allow	No
	BranchCache Hosted Cache Server(HTTP	BranchCache	- Hosted Cach	All	No	Allow	No
	BranchCache Peer Discovery (WSD-Out)	BranchCache	- Peer Discove	All	No	Allow	No
	Core Networking - DNS (UDP-Out)	Core Network	ing	IIA	Yes	Allow	No
	Core Networking - Dynamic Host Config	Core Network	ing	All	Yes	Allow	No
	O Core Networking - Dynamic Host Config	Core Network	ing	All	Yes	Allow	No
	Core Networking - Group Policy (LSASS	Core Network	ing	Domain	Yes	Allow	No
	Core Networking - Group Policy (NP-Out)	Core Network	ing	Domain	Yes	Allow	No
	Core Networking - Group Policy (TCP-O	Core Network	ing	Domain	Yes	Allow	No
	Core Networking - Internet Group Mana	Core Network	ing	All	Yes	Allow	No
	Core Networking - IPHTTPS (TCP-Out)	Core Network	ing	All	Yes	Allow	No
	O Core Networking - IPv6 (IPv6-Out)	Core Network	ing	All	Yes	Allow	No
	O Core Networking - Multicast Listener Do	Core Network	ing	All	Yes	Allow	No
	O Core Networking - Multicast Listener Qu	Core Network	ing	All	Yes	Allow	No
	Core Networking - Multicast Listener Rep	Core Network	ing	All	Yes	Allow	No
	Ore Networking - Multicast Listener Rep	Core Network	ing	All	Yes	Allow	No
c III >	c 💷						3

Figure 46: UDP Outbound Setup

> Right-click on Inbound Rules and click on "New Rule" to launch the wizard

@	New Outbound Rule Wizard	x
Rule Type Select the type of firewall rule to c	reate.	
Steps: Pule Type Protocol and Ports Action Profile Name	What type of rule would you like to create? Program Rule that controls connections for a program. P Pgt Rule that controls connections for a TCP or UDP port. Predefined: BranchCache - Cortent Retrieval (Uses HTTP) Rule that controls connections for a Windows experience. Custom Custom rule.	bl

Figure 47: UDP Outbound Setup

Select "Port" and click on "Next" under "Rule Type"

@	New Outbound Rule Wizard	x
Protocol and Ports		
Specify the protocols and ports to	which this rule applies.	
Steps:		
Rule Type	Does this rule apply to TCP or UDP?	
Protocol and Ports	○ <u>I</u> CP	
 Action 	● <u>U</u> DP	
Profile		
Name	Does this rule apply to all remote ports or specific remote ports?	
	O All remote ports	
	Specific remote ports: 69, 5003, 5004, 9191	
	Example: 80, 443, 5000-5010	
	< <u>B</u> ack <u>Next</u> > Cancel	

Figure 48: UDP Outbound Setup

- ➢ Select "UDP" and "Specific local ports"
- ▶ Enter "69, 5003, 5004, 9191" into the field.
- ➢ Click on "Next"

@	New Outbound Rule Wizard				
Action Specify the action to be taken who	Action Specify the action to be taken when a connection matches the conditions specified in the rule.				
Steps: Protocol and Ports Action Profile Name	What action should be taken when a connection matches the specified conditions? Image: Contraction Contraction Contractions that are protected with IPsec as well as those are not. Image: Contraction Contraction Contractions that have been authenticated by using IPsec. Connections the settings in IPsec properties and rules in the Connection Security rule node. Image: Contraction Contraction Contractions that have been authenticated by using IPsec. Connections rule node. Image: Contraction Contractions that Paper properties and rules in the Connection Security rule node. Image: Contraction Contractions that Paper properties and rules in the Connection Security rule node. Image: Contraction Contractions that Paper properties and rules in the Connection Security rule node. Image: Contraction Contractions that Paper properties and rules in the Connection Security rule node. Image: Contraction Contractions that Paper properties and rules in the Connection Security rule node. Image: Contraction Contractions that Paper properties and rules in the Connection Security rule node. Image: Contraction Contractions that Paper properties and rules rul				

Figure 49: UDP Outbound Setup

➢ Select "Allow the connection" and click "Next"

@	New Outbound Rule Wizard	×
Profile Specify the profiles for which this r	ule applies.	
Specify the profiles for which this r Steps: Protocol and Ports Action Profile Name	 When does this rule apply? ✓ Domain Applies when a computer is connected to its corporate domain. ✓ Private Applies when a computer is connected to a private network location, such as a home or work place. ✓ Public Applies when a computer is connected to a public network location. 	
	< Back Next > Cancel	

Figure 50: UDP Outbound Setup

Check "Domain", "Private" and "Public" options and click "Next"

*	New Outbound Rule Wizard	×
Nome		
Specify the name and description	of this rule.	
Steps:		
Rule Type Referred Refer		
 Protocol and Ports Action 		
Profile	Name:	20
Name	R5K UDP Outbound Ports	
	Description (optional):	
		1
		-
	< Back Einish Cano)el

Figure 51: UDP Outbound Setup

- Enter name for the newly created rule. For example, "R5K UDP Outbound Ports" and click on "Finish".
- > Enable the firewall and test your system configuration.

Additional program exception rules must be created for each application to properly run,



- R5Kware
- Internet Browsers: Internet Explorer or Chrome

Once the firewall is enabled. Consult site's IT personnel for assistance as needed.

5

5: MS SQL Express 2014 Installation

Download MS SQL Express 2014 (SQLEXPRWT_x64_ENU.exe) from Microsoft Web site.

Double-click SQLEXPRWT_x64_ENU.exe to extract SQL Express 2014 installation files:

Choose Directory For Extracted Files	×
Choose Directory For Extracted Files C:\CDs\SQLEXPRWT_x64_ENU\]
Ok Cancel Browse	

Figure 52: MS SQL Installation

> The SQL Express 2014 extraction of installation files will begin:



Figure 53: MS SQL Installation



Figure 54: MS SQL Installation

Select "New SQL Server stand-alone installation or add features to existing installation":

Ol Server Installation Conton	
🐮 SQL Server 2014 Setup	
License Terms To install SQL Server 2014, you	u must accept the Microsoft Software License Terms.
License Terms	MICROSOFT SOFTWARE LICENSE TERMS
Product Updates	MICROSOFT SQL SERVER 2014 EXPRESS
Install Setup Files Install Rules Feature Selection Feature Configuration Rules Installation Progress	These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft updates, supplements,
Complete	Copy Print
	Turn on Customer Experience Improvement Program ("CEIP") and Error Reporting to help improve the quality, reliability and performance of Microsoft SQL Server 2014.
	See the Microsoft SQL Server 2014 Privacy Statement for more information.
	* Microsoft SQL Server 2014 also includes a Visual Studio component that will have CEIP settings turned off by default. If Visual Studio is installed, this component will use the CEIP settings for Visual Studio.
-	< Back Next > Cancel

Figure 55: MS SQL Installation

> Check the "I accept the license terms" and click "Next" to continue:

SQL Server 2014 Setup Feature Selection Select the Express features to in	stall.		
License Terms Global Rules Product Updates Install Setup Files Install Rules Feature Selection Feature Rules Instance Configuration Server Configuration Database Engine Configuration Feature Configuration Rules Installation Progress Complete	Install. Features: Solution of the services Solution of the services Solution of the services Solution of the services Client Tools Connectivity Client Tools Backwards Compatibility Client Tools DK Management Tools - Complete Solut Client Connectivity SDK LocalDB Redistributable Features		Feature description: The configuration and operation of each instance feature of a SQL Server instance. SQL Server instances and operate side-by-side on Prerequisites for selected features: Already installed: Windows PowerShell 2.0 Microsoft. MET Framework 3.5 Cisk Space Requirements Drive C: 2534 MB required, 329602 MB available
	Instance root directory: Shared feature directory: Shared feature directory (x86):	C:\Program Files\Mid C:\Program Files\Mid C:\Program Files (x80	crosoft SQL Server\ S)\Microsoft SQL Server\
		< Back	Next > Cancel Help

Figure 56: MS SQL Installation

> Make desired features selection and click "Next" to continue:

🐮 SQL Server 2014 Setup					
Instance Configuratio	n				
Specify the name and instanc	e ID for the instance of S	QL Server. Instance	ID becomes part of t	the installation path.	
License Terms Global Rules Product Updates	Default instance Named instance:	MSSQLSERVER			
Install Setup Files Install Rules Feature Selection	Instance ID:	MSSQLSERVER			
reature Kules Instance Configuration Server Configuration Database Engine Configuration	SQL Server directory: Installed instances:	C:\Program Files\	Microsoft SQL Server	\MSSQL12.MSSQLSER\	/ER
Feature Configuration Rules Installation Progress Complete	Instance Name	Instance ID	Features	Edition	Version
			< Back	Next > Can	cel Help

Figure 57: MS SQL Installation

Select "Default instance" and click "Next" to continue:

Specify the service accounts an	d collation configuration.				
icense Terms	Service Accounts Collation				
Global Rules	Microsoft recommends that you	use a separate account for each	SQL Server serv	ice.	
roduct Updates nstall Setup Files	Service	Account Name	Password	Startup Typ	e
nstall Rules	SQL Server Database Engine	NT Service\MSSQLSERVER		Automatic	-
eature Selection	SQL Server Browser	NT AUTHORITY\LOCAL		Disabled	
erver Configuration					
Istance comgustation ierver Configuration Database Engine Configuration ieature Configuration Rules nstallation Progress Complete					

Figure 58: MS SQL Installation

Make sure "SQL Server Database Engine" "Startup Type" is set to "Automatic" and click "Next" to continue:

🐮 SQL Server 2014 Setup					- • •
Database Engine Confi	guration				
Specify Database Engine auther	ntication security mode, a	administrators and	data directories		
License Terms Global Rules Product Updates Install Setup Files Install Rules Feature Selection Feature Rules Instance Configuration Server Configuration Database Engine Configuration Feature Configuration Rules Installation Progress Complete	Server Configuration Specify the authent Authentication Mod Windows authen Mixed Mode (SQ Specify the password: Cgnfirm password: Cgnfirm password: Specify SQL Server a RB-ADIWOJTEKW Add Current User	Data Directories ication mode and de tication mode gL Server authentic. rd for the SQL Server administrators Wroblewski, Wojte Model	User Instances administrators for ation and Windo er system admin 40	FILESTREAM	Engine. on) ount. SQL Server administrators have unrestricted access to the Database Engine.
		[< <u>B</u> ack	<u>N</u> ext >	Cancel Help

Figure 59: MS SQL Installation

 Select "Mixed Mode (SQL Server authentication and Windows authentication)", enter password for "sa" and click on "Next" to continue. Installation begins:

🐮 SQL Server 2014 Setup		- • •
Installation Progress		
License Terms		
Global Rules		
Product Updates	Install_VC90Redist_Cpu32_Action : PublishProduct. Publishing product information	
Install Bules		
Feature Selection		
Feature Rules		
Instance Configuration		
Server Configuration		
Database Engine Configuration		
Feature Configuration Rules		
Complete		
complete		
	Next > Cancel	Help

Figure 60: MS SQL Installation

> After successful installation you should see "Complete" screen:

🐮 SQL Server 2014 Setup		
Complete Your SQL Server 2014 installat	ion completed successfully with product updates.	
License Terms Global Rules	Information about the Setup operation or poss	ible next steps:
Product Updates	Management Tools - Complete	Succorded
Install Setup Files	Client Tools Connectivity	Succeeded
Install Rules	Client Tools SDK	Succeeded
Feature Selection	Client Tools Backwards Compatibility	Succeeded
Feature Rules	Management Tools - Basic	Succeeded
Instance Configuration	Canatabase Engine Services	Succeeded
Server Configuration		
Database Engine Configuration	Details:	
Feature Configuration Rules Installation Progress Complete	Viewing Product Documentation for SC Only the components that you use to view been installed. By default, the Help Viewer SQL Server, you can use the Help Library your local computer. For more information, (http://go.microsoft.com/fwlink/?LinkID=2 Summary log file has been saved to the following C\Program Files\Microsoft SQL Server\120\Sec \Summary wojtekw3000 20170621 195657.	AL Server and manage the documentation for SQL Server have component uses the online library. After installing Manager component to download documentation to see Use Microsoft Books Online for SQL Server 99578>). ng location: tup Bootstrap\Log\20170621_195657. at
		Close Help

Figure 61: MS SQL Installation

6

6: IIS Setup

On a computer running Reporting Software Application open Server Manager -> Dashboard.

- Server Manager + Dachboard

 Server Manager + Dachboard

 Configure this local server
 Actions
 A
- Select "Add roles and features":

Figure 62: IIS Setup

Select "Installation Type" and select "Role-based or feature-based installation" in "Add Roles and Features Wizard":

1		Add Roles and Features Wizard	_ D X
S	elect installation	type Des	TINATION SERVER R5K-AlphaRpts1
	Before You Begin Installation Type	Select the installation type. You can install roles and features on a running physical com machine, or on an offline virtual hard disk (VHD). © Role-based or feature-based installation	uputer or virtual
	Server Selection	Configure a single server by adding roles, role services, and features.	
		 Remote Desktop Services installation Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtua or session-based desktop deployment. 	al machine-based
		< Previous Next > Install	Cancel

Figure 63: IIS Setup

> In "Server Selection" highlight the name of local server and click on "Next"

Select destinati	on server		DESTINATION SERV R5K-AlphaRp		
Before You Begin Installation Type	Select a server or a virte	Select a server or a virtual hard disk on which to install roles and features.			
Server Selection	 Select a virtual hard 	 Select a virtual hard disk 			
Server Roles	Server Pool				
Features Confirmation	Filter:				
	Name	IP Address	Operating System		
	R5K-AlphaRpts1	172.18.74.77,1	Microsoft Windows Server 2012 R2 Standard		
	1 Computer(s) found		lows Server 2012 and that have been added by using		
	This page shows server	s that are running win			

Figure 64: IIS Setup

- Select "Server Roles" in "Add Roles and Features Wizard" then:
 - Check and expend "Web Server (IIS)..." section
 - Make sure the following items are checked:
 - "Common HTTP Features (Installed)"
 - "HTTP Logging (Installed)"
 - "Logging Tools (Installed)"
 - "ODBC Logging (Installed)"
 - Request Monitor (Installed)"
 - "Tracing (Installed)"

- "IIS Management Console (Installed)"
- "IIS 6 Metabase Compatibility (Installed)"
- "IIS 6 Management Console (Installed)"

		Add Notes and Featur	es veizaro		
t server ro	oles				DESTINATION SERVER RSC-AlphaRpts1
You Begin Ition Type Selection	Select one or more roles to install on the selected server. Roles Network Policy and Access Services		Description Web Server provides support for HTML Web Server provides support for HTML		fTML Web sites and optional
Role: 93	> Res > Res <t< td=""><td>An only on Activity anticols the Actives the Actives t</td><td></td><td>support for ASIANT, ASP, and W under the Wite Service Into Ana Anti Its provide an environment for de- applications.</td><td>6 server rotanisons. You can and or external Web is de or elopers to create Web-based</td></t<>	An only on Activity anticols the Actives the Actives t		support for ASIANT, ASP, and W under the Wite Service Into Ana Anti Its provide an environment for de- applications.	6 server rotanisons. You can and or external Web is de or elopers to create Web-based
	₩ind >	ows Server Essentials Experience (Installed) ows Server Update Services (1 of 3 installed)	v		

Figure 65: IIS Setup

- Select "Server Roles" in "Add Roles and Features Wizard" then:
 - Check and expend "Application Server" section
 - Make sure the following items are checked:
 - ➢ "NET Framework 4.5" (Installed)"
 - "TCP Port Sharing (Installed)"
 - ➢ Web Server IIS Support (Installed")

6	Add Roles and Features Wizard	_ _ X
Before You Begin Installation Type Server Selection Server Roles	Select one or more roles to install on the selected server.	DESTINATION SERVER RSK-AlphaRpts1 Description .NET Framework 4.5 provides a comprehensive and consistent
Features Confirmation Results	Active Directory Rights Management Services Active Directory Rights Management Services Application Server (3 of 11 installed) VET Framework 4.5 (Installed) Other Vetwork Access Distributed Transactions Incoming Network Transactions Incoming Network Transactions Outgoing Network Transactions Outgoing Network Transactions VTCP Port Sharing (Installed) Web Server (IIS) Support (Installed) Windows Process Activation Service Support HTTP Activation Message Queuing Activation V	programming model for quickly and easily building and running applications that are built for various platforms including desktop PCs, Servers, smart phones and the public and private cloud.
	< Previous Next	> Install Cancel

Figure 66: IIS Setup