# User Manual -OPC Server Omnicast

Version 1.0.0

**Revision History** 

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### 1. Glossary

Acronym	Description
OPC	Open Process Control
OLE	Object Linking and Embedding
GUI	Graphic User Interface
SCADA	Supervisory Control And Data Acquisition

### 2. Introduction

This is a User Manual for the SAMSUNG OPC Server. The Server communicates with SAMSUNG system over Ethernet and supports data exchange with Client's via Microsoft's Object Linking and Embedding (OLE) for Process Control (OPC).

The manual is organized to give an overview of OPC technology and the Server, details on the configuration environment, detailed procedurally steps involved in a simple configuration.

While an overview of OPC is presented, a complete description of OPC is beyond the scope of this manual. References are provided where additional details can be found. While an in-depth understanding of OPC is not required to use the Server with OPC Clients, a good understanding of OPC can help you optimize configurations and may prove invaluable when trying to get multiple Clients working with a single Server instance.



### **3. About the OPC Server SAMSUNG**

The OPC Server is a Windows-based application that allows OPC compatible clients, such as SCADA systems, to connect to one or more SAMSUNG systems.

The OPC Server SAMSUNG is based on OPC Data Access, known as 'DA', which provides real-time data from SAMSUNG system to OPC Clients.

OPC communicates with SAMSUNG system through SAMSUNG XNS ActiveX SDK (Version 1.39.00 – 2012-08-31).

The OPC Server reads and writes data to and from SAMSUNG system via Ethernet.

The Server has a graphical user interface (GUI) configuration environment with an "Explorer" look and feel. The configuration environment allows the Server to be configured with information such as controller IP addresses and available global variables so that the Server can communicate with these systems on behalf of Clients.

Application Name	: OPC-Samsung.exe
OPC NAME	: Can be configured in xml file.
OPC DESCRIPTION	: Can be configured in xml file.
OPC GUID	: { 0A010292-4E06-4C38-A085-AC7E4CC1CEBA }



### 4. OPC Server Overview

#### 4.2 Hardware Requirements

#### 4.2.1 Network Hardware Requirements

Since the Server communicates with the SAMSUNG systems over Ethernet, an Ethernet network must be in place. Depending on the cabling, distances, inter connectivity requirements, etc., this system may include bridges, routers, hubs, etc.. The network itself should be fully tested and be known to operate before attaching the controllers and the Server computers. Contact your system administrator for assistance or consult instructional documentation and manuals to setting up the network. It is beyond the scope of this Users Manual to discuss networking topics in any detail.

Once the network is in place and the Server computers and controllers are attached, check connectivity using available network testing tools and programs such as ping.

### 4.2.2 Computer Hardware Requirements

The following minimum computer hardware items are required for the computer that will be running the Server:

- 1. CPU Entry level
- 2. 512 Mb of RAM
- 3. 10 GB hard disk space
- 4. SVGA display adapter (required for configuration only)
- 5. Ethernet adapter with proper interface type to attach to the Ethernet network.

While these are considered minimums, actual requirements will vary greatly depending upon the operating system, operating system options installed and the Server's configuration and the operation it will be requested to perform on behalf of Clients.

Faster CPUs and more memory will greatly enhance the performance of the Server.

#### 4.3 Software Requirements

The following software requirements must be met in order to configure and/or use the Server :

- Windows Server 2003, Windows XP or Windows 7 with DCOM installed.
- SAMSUNG XNS ActiveX SDK (Version 1.39.00 2012-08-31).



### 4.4 Installation of the OPC Server

The OPC server requires a system with DCOM Installed and the installation of the OPC proxy DLLs.

The OPC proper functioning needs the installation of the SAMSUNG SDK and then the installation of the EVI SAMSUNG using its specific setup.

The setup includes all the dependencies that your system must meet (ex. *WtOPCSvr.DLL* - OPC server library) in order to ensure the proper functioning of the application.

S4SGenCodeInfoLibrary S4SGenCodeInfo.dll WtOPCSvr.dll SysInfo.dll S4S\_OPC\_Library.dll

### 4.5 Registration of the OPC Server



- To register the Server, you must click 'Register' in the menu 'Server'.
- To **unregister** the OPC Server, you must click 'UnRegister' in the menu 'Server'.



## 4.6 Authentication level and Permissions of the OPC Server

After OPC Server registration is necessary to enable the COM security, so OPC Client can automatically call the OPC Server.

Below are showed the steps needed to enable the security COM, using 'DCOMCNFG1':

- 1. Verify that the DCOM security registration was executed successfully;
- 2. Run DCOMCNFG (Only the administrator can run *'Dcomcnfg.exe'*). To use *'RUN Command Windows*' or *'Command Prompt'*, to open DCOMCNFG program,

Run	<u>?</u> ×
-	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	dcomcnfg 🔹
	OK Cancel <u>B</u> rowse
	Image 1 DCOMCNFG - Run

- 3. Locate the *My Computer* item by expanding the following nodes: *Component Services > Computers*
- 4. Right-click *My Computer* and select *Properties*.

<sup>&</sup>lt;sup>1</sup> **Dcomcnfg.exe** provides a user interface for modifying certain settings in the registry. By using Dcomcnfg.exe, you can enable security either on a computer-wide or a process-wide basis. You can enable security for a particular computer so that when a process does not provide its own security settings, either programmatically or through registry values, the values set by Dcomcnfg.exe will be used. Or you can use Dcomcnfg.exe to enable security for a particular application only. *Note*:You must be an administrator to run Dcomcnfg.exe.



Discomponent Services			C	
File Action View V	Window Help			_8×
🗢 🔶 💽 🗡 🖆	7 🕑 😰	****	出面的	
Console Root		My Computer	4 object(s)	Ç
Computers  My Compute  Event Viewer (Local  Services (Local)	Stop MS DTC Refresh all co	omponents	DCOM Conl	fig
	New Window from Here		Running Processes	
	Properties			
Opens property sheet for th	Help			

Image 2 Component Services Property

5. Go to the COM Security tab. Edit the default settings for Access Permission, hereby adding 'ANONYMOUS LOGON' and 'Everyone' and giving all access permissions to that group of users. Repeat the setup for the limit settings.

Default Protocols MSDTC CDM Security	
	Defect Security
cess Permissions You may edit who is allowed default access to applications. You may also set limits on applications that determine their own permissions. Edit Limits Edit Default unch and Activation Permissions You may edit who is allowed by default to launch applications or activate objects. You may also set limits on applications that determine their own permissions. Edit Limits Edit Default	Group or user names:

Image 3 COM Security Access Permissions

6. Now edit the default settings for *Launch and Activation Permissions*, hereby adding '*ANONYMOUS LOGON*' and '*Everyone*' and giving all



access permissions to that group of users. Repeat the setup for the limit settings.

General	Options	Default Properties	Launch Permission		
Default Protocols	MSDTC	COM Security	Default Security		
Access Permissions You may edit who i also set limits on ap Launch and Activatio	s allowed default access plications that determine Edit Limits	to applications. You may their own permissions.	Group or user names: ANONYMOUS LOGON Everyone INTERACTIVE SYSTEM	_	
activate objects. Yr determine their owr	Edit Limits	Edit Default	Permissions for ANONYMOUS	Add Allow	Remove Dery
			The there is the set of the		

Image 4 COM Security Launch and Activation Permissions

The new settings will take effect when the OPC Client has been restarted. Therefore, close the Component Services (dcomcnfg program) and restart the OPC Client application.

7. Using tree view DCOMCMFG to check the all DCOM registered.

🔅 Component Services
🐌 File Action View Window Help
Console Root Component Services Active Directory Users and Comp Event Viewer (Local) Services (Local) Computers

Image 5 DCOMCMFG



Select the 'Component Services' item, than 'Computers', than 'My Computer' and 'DCOM Config' item;

Find the OPC Server name registered in the DCOM list, it must be the same as configured in the xml file.

Xml file example:

<OPC\_PROTOCOL Delimiter="." **OPC\_name="<u>OPC-SERVER</u>"** OPC\_description="OPC Server - SAMSUNG" />

OPC Server name is registered: "OPC-SAMSUNG", for this example the name is "OPC-SERVER".



Image 6 DCOMCNFG - Find OPC Server

- 8. OPC Server Configuration Permissions. Select the 'OPC-SERVER' registration then the properties (pushing the right button) and then select the '*security*' tab:
  - a. Select '*Customize*' in the *'Configuration Permissions'* and then click the '*Edit'* button.





General Location Security Endpoints Identity	
Launch and Activation Permissions	
<ul> <li>Use Default</li> </ul>	
C Custo <u>m</u> ize	E <u>d</u> it
Access Permissions	
• Use Default	
C Custo <u>m</u> ize	E <u>d</u> it
Configuration Permissions	
C Use Default	
<ul> <li>Customize</li> </ul>	Edįt
OK Car	ancel <u>A</u> pply

Image 7 DCOMCNFG – Configuration Permissions

- b. Select 'Add' button to add a new user and then, in the new form, select the 'Advanced' button.
- c. Click the 'Find' button to search the 'everyone' and then 'ANONYMOUS LOGON ' users.

elect Users or Groups			<u>? ×</u>
Select this object type:			
Users, Groups, or Built-in security principals		<u>O</u> bj	ect Types
From this location:			
FT_SRV_1		Ŀ	ocations
Common Queries			
Name: Starts with			<u>C</u> olumns
Description: Starts with			Find <u>N</u> ow
Disabled accounts			Stop
Non expiring password			
Days since last logon:			ő
<u> </u>			Cancel
Search res <u>u</u> lts:			
Name (RDN)	In Folder		<u> </u>
Administrators	FT_SRV_1		
RANUNYMOUS LUGUN			
Authenticated Users	ET CDV 1		-



d. Add 'everyone' and 'ANONYMOUS LOGON' user;

Select Users or Groups		<u>? ×</u>
Select this object type:		
Users, Groups, or Built-in security principals		Object Types
From this location:		
FT_SRV_1		Locations
Enter the object names to select ( <u>examples</u> ):		
ANONYMOUS LOGON; Everyone		<u>C</u> heck Names
Advanced	OK	Uancel

Image 9 DCOMCNFG - Add users

- e. Provide all permission to added users.
- 9. Set OPC Server identity. Select the 'identity' tab:

Set 'This user' and insert User and Password used to access USER.

General   Location   Securit	y Endpoints Identity			
Which user account do you want to use to run this application?				
C. The Second				
O The interactive user.				
<ul> <li>The jaunching user.</li> </ul>				
This user.				
Us <u>e</u> r:	USER	<u>B</u> rowse		
Password:	•••••			
Confirm password:	•••••	]		
C The system account (se	ervices only).			
	OK Cance	I <u>A</u> pply		

Image 10 DCOMCNFG – Identity



#### 4.7 Demo and Unlocking

The OPC-Omnicast can be used in demo version with full functionality of the program for up two hours. To get unlimited functionality of the product you need to buy the license from S4S

### 4.7.1 Request your license

To apply for a license to S4S is need to access via OPC-Omnicast GUI to the 'About' / 'View License' / 'Product Activation' dialog.

- In the 'Product Activation' dialog you must complete the following steps:
  - complete the form (user name, organization, email field);
  - generate code (via the 'Generate new user code' button);
  - save the code and directly send it to 'info@s4s.it ' or send it via 'Send' button if is configured a mail box on the computer.

### 4.7.2 Activate the license

To activate your license you must access to the 'Product Activation' dialog and through the 'Load New License' button you load the license file released by S4S.

A dialog will appear for feedback at the end of loading to indicate the outcome of activation.



#### 4.8 Configuration

The Server must be configured to know about SAMSUNG system(s) with which it will communicate. In the Server configuration environment, each DEVICE is referred to as a SAMSUNG system.

Configuration of System includes defining Communication Paths to access DEVICE(s), DEVICE address information and the Global Variables available in the DEVICE(s) to be accessed.

The configuration of the communication parameters and of the DEVICEs connected to the OPC Server is done using an XML page.

The configuration page should be placed in the OPC- SAMSUNG application folder. If the configuration page is not present in the OPC Server application folder, the program automatically creates a template configuration page.

<?xml version="1.0" encoding="utf-16"?>

<!--Configurator Settings. IMPORTANT: This is an internal file that has been generated by OPC-Samsung program. Any direct editing or changes made to this file may result in unpredictable behavior or data corruption. It is strongly advised that users do not edit the contents of this file.-->

<Configurator>

<!--System Configuration.-->

<!--RECONNECTION\_FREQUENCY: Check interval of the connection to the DEVICE Samsung. If the DEVICE is not connected try to connect it. Default value: 3 [s]. Range Value 1-36000 [s].-->

<!--SYSTEM\_STATUS\_UPDATE: Request interval for updating the state of the DEVICE Samsung. The application updates the status of the DEVICE. Default value: 60 [s]. Range Value 0-36000 [s] [0 = No System Update].--> 
<!--DETAIL\_LOG: Defines the level of detail of the log, (1) LOW, (2) MEDIUM, (3) HIGH-->

<!--(1) LOW - [Default value] - Log write only on OPC GUI.-->

<!--(2) MEDIUM - Log write on OPC GUI and on File.txt (C:\OPC-Samsung\LOG\).-->

<!--(3) HIGH - Log write on OPC GUI and on File.txt (C:\OPC-Samsung\LOG\). The detail
level is verbose and can slow down the program. Used only for Debug.-->

<!--DEFAULT\_VALUE\_TAG: Default value assigned to the fields of the cameras and DEVICE except the connection field, when the connection status of the DEVICE is disconnected. Default value: -1. Range Value -100000 to 100000.-->

<<u>SETTINGS</u> RECONNECTION\_FREQUENCY="3" SYSTEM\_STATUS\_UPDATE="60" DETAIL\_LOG="1" DEFAULT\_VALUE\_TAG="0" />

<!--OPC Property Configuration.-->

<!--Delimiter: TAGs delimitator for OPC Protocol. Default value: '.'-->

<!--OPC\_name: OPC name registered in the system. Default value: S4S.OPC-Samsung-->

<!--OPC\_description: OPC description registered in the system. Default value: S4S OPC Server – Samsung--> <!--Defines the maximum number of DEVICE that can be configured. If I define more than the DEVICE threshold, the program recognizes only the first falling within the configured threshold value. Default Value: 1. Range Value 1-10.-->

<OPC\_PROTOCOL Delimiter="." OPC\_name="S4S.OPC-Samsung" OPC\_description="S4S OPC Server - Samsung" Maximum\_number\_DEVICE="1" />

<sup>&</sup>lt;!--OPC Server Configurator. Version 1.0.0.0, DateTime 06/03/2014 15:26:52-->





<!--Samsung System(s) Configuration. Serial Port Configuration:-->
</-- ID: Identifier of the DEVICE Samsung-->
</-- Description: Description DEVICE configured. The first OPC activation, OPC creates a example configuration with only one DEVICE. The DEVICE description is setted with -EXAMPLE-, OPC doesn't consider the DEVICE, with description -EXAMPLE-, as configured, you must rename the DEVICE if you want configure it. The default value is EXAMPLE-.->

<!-- ModelName: Name of model to connect to. The default value is 'SRN-167X'.-->
<!-- AddressType: (1) Static IP <ex. '192.168.1.200'>; (2) URL <ex. 'habcdef.websamsung.net'>, (3) Samsung DDND <use MAC address>, (4) S1 DDNS <use MAC address>, (5) iPolis DDNS <use ID, ex. 'mymodelid' registered at 'www.samsungipolis.com' (created by the user)>. The default value is '1.-->

<!-- Address: Actual address according to AddressType. The default value is '127.0.0.1'.-->
<!-- Port: Port number. The default value is 1234.-->

<!-- HttpPort: Port number for web access. The default value is 0.-->
<!-- User: Login ID. The default value is 'user'.-->

<!-- Password: Login password. The default is 'password'.-->

<!-- NumCameras: Number cameras connected to DEVICE. The default is 16.-->

<DEVICE ID="1" Description="EXAMPLE" ModelName="SRN-167X" AddressType="1" Address="127.0.0.1"
Port="1234" HttpPort="0" User="user"
Password="KMFFDLAFKGCGHQAEJOEKGEELCMHHCONOLNEKGHNEKDIINCCE" NumCameras="16" />

</Configurator>

XML template page

#### SETTINGS TAGs

The TAG *SETTINGS* configure the global settings of the server:

#### • **RECONNECTION\_FREQUENCY**:

Reconnections frequency in seconds when a connection is broken or not. If the DEVICE is not connected try to connect it. Default value: 3 [s]. Range Value 1-36000 [s].

#### • SYSTEM\_STATUS\_UPDATE:

System status update in seconds. It requires the whole state of the system. If the system is connected requests the status of the connected cameras. Default value: 60 [s]. Range Value 0-36000 [s] [0 = No System Update].

#### • DETAIL\_LOG:

Defines the level of detail of the log, (1) LOW, (2) MEDIUM, (3) HIGH. Default value: 1. Range Value 1-3.

- (1) LOW [Default value] Log write only on OPC GUI.
- (2) MEDIUM Log write on OPC GUI and on File.txt (C:\\OPC-Samsung\\LOG\\).");



- (3) HIGH - Log write on OPC GUI and on File.txt (C:\\OPC-Samsung\\LOG\\). The detail level is verbose and can slow down the program. Used only for Debug.

#### • DEFAULT\_VALUE\_TAG

Default value assigned to the fields of the cameras and DEVICE except the connection field, when the connection status of the DEVICE is disconnected. Default value: -1. Range Value -100000 to 100000.

#### **OPC\_PROTOCOL TAGs**

The **OPC\_PROTOCOL** tag defines the features of the OPC Server. The OPC\_PROTOCOL tag is defined by:

• Delimitator

TAGs delimitator for OPC Protocol. Default value: '.';

• OPC\_name

OPC name registered in the system. Default value: S4S.OPC-Omnicast;

• OPC\_description

OPC description registered in the system. Default value: S4S OPC Server – Omnicast;

#### MaxNumberDEVICE

Defines the maximum number of DEVICE that can be configured. If I define more than the DEVICE threshold, the program recognizes only the first falling within the configured threshold value. Default Value: 1. Range Value 1-10.

#### **DEVICE TAGs**

The *DEVICE* tag defines a system Omnicast to be connected to the OPC Server. It is possible to define only one DEVICE.

The DEVICE tag is defined by:

• *ID* 

Identifier of the DEVICE Samsung.

• Description

Description DEVICE configured. The first OPC activation, OPC creates a example configuration with only one DEVICE. The DEVICE description is



setted with -EXAMPLE-, OPC doesn't consider the DEVICE, with description - EXAMPLE-, as configured, you must rename the DEVICE if you want configure it. The default value is EXAMPLE.

#### • ModelName:

Name of model to connect to. The default value is 'SRN-167X'.

Device Type	Model Name
N/W Camera	Samsung Network Camera (Integrated Model) * Support all network products released since 2012 (except All In One models)
	SNB-1000, SNB-2000, SNB-3000, SND-3080, SND-3080C, SND- 3080F, SND-3080CF, SNV-3080, SNC-B2315, SNC-B2331, SNC- B2335, SNC-B5368, SNC-B5395, SNC-C6225, SNC-C7225, , SNC- C7478, SNC-M300
	SNV-3370, SNP-3370TH, SNP-3301, SNP-3301H, SNC-550, SNC- 570, SNC-1300, SND-460V, SND-560, SNP-1000A, SNP-3300A, SNP-3350, SNP-3750,
Encoder	Samsung Encoder (Integrated Model)
	* Support all network products released since 2012
	SNS-100, SNS-400, SNT-1010
DVR	Samsung DVR (Integrated Model)
	* Support all network products released since 2012
	SHR-504X, SHR-604X, SVR-1670, , SVR-1640A, SVR-1650E, SVR- 950E
	SVR-450, SVR-470, SVR-480, SRD-480D, SVR-940, SVR-945, SVR-
	950E, SVR-960, SVR-960C, SVR-1640A, SVR-1645, SVR-1650E,
	SVR-1660, SVR-1660C, SVR-1670, SVR-1680, SVR-1680C, SVR- 3200
NVR	Samsung NVR (Integrated Model)
	* Support all network products released since 2012
	SNR-3200, SNR-6400, SRN-3250, SRN-6450
	NET-i ware (SNS-SF064, SNS-SF032, SNS-SF016, SNS-SF008, SNS-SF004)

• *AddressType:* Address Type of the DEVICE, you can connect in different ways:

-	(1)Static IP	<ex. '192.168.1.200'="">;</ex.>
-	(2) URL	<ex. 'habcdef.websamsung.net'="">,</ex.>
-	(3) Samsung DDND	<use address="" mac="">,</use>



- (4) S1 DDNS
- (5) iPolis DDNS

<use MAC address>,

<use ID, ex. 'mymodelid' registered at 'www.samsungipolis.com' (created by the user)>.

The default value is 1.

• Address:

Actual address according to AddressType. The default value is '127.0.0.1'.

#### • Port:

Port number. The default value is 1234.

• *HttpPort:* Port number for web access. The default value is 0.

• User: Login ID. The default value is 'user'.

• Password:

Login password. The default is 'password'.

• NumCameras:

Number cameras connected to DEVICE. The default is 16.



### 5. OPC TAGs

TAG	DESCRIPTION	ТҮРЕ	PROPERTY	VALUE	VALUE DESCRIPTION	
	S4S.OF	C-San	nsung			
	SI	ETTINGS				
License	License State	Short	R	1	DEMO version running	
				2	DEMO version expired	
				3	Licensed	
.ReconnectionFrequency[s]	Reconnection Frequency in seconds	Short	R/W	1 to 3600	Default 3 seconds	
.SystemStatusUpdate[s]	System status update in seconds	Short	R/W	0 to 3600	Default 60	
.MaximumNumberDEVICE	Maximum Number DEVICE configurable	Short	R	1 to 10	Default 1	
.Date_XML_Upload	Date last upload configuration data (xml file)	String	R		DD/MM/YYYY hh:mm:ss	
.Configured	Configured in xml file	Short	R	0	Configured	
				1	Not Configured	
.ID	DEVICE ID	Short	R	1-N		
.Description	DEVICE Description	String	R			
.ConnectionState	Connection state with DEVICE	Short	R	(Define in xml)	Unknown	



	TAG updated after System				
				0	Connected
				1	Disconnected
.LastUpdate	Data Last Update	String	R		
.Command	Command DEVICE	Short			COMMANDS
				10	System Status Update
				20	Stop DVR Recording
				21	Start DVR Recording
	DEVIC	E*.CAME	RA *		
.LocalName	Name of the control module specified in the application TAG updated after System Status Update	String	R		The default name is "IpAddress:portNumber- channelNumber"
DomotoNomo	Nome of the control module	Ctring	D		This value returned offer System
.Remotename	TAG updated after System Status Update	String	ĸ		Status Update.
.ConnectionState	Camera status TAG updated after System Status Update and Event.	Short	R	Default value	Unknown
				0	Connected
				1	Disconnected
AlarmState	Displays the status of the	Short	D	Dofault	
Admotac	alarm out port. TAG updated after System Status Update and Event.	Short	IX.	value	
				0	Normal
				1	Alarmed
.RecordingState	Recording State of DVR. TAG updated after System Status Update and Event.			(Define in xml)	Unknown
				0	No DVR Recording
				1	DVR Recording
				10	
				11	Start DV/R Recording
.LocalRecState	Displays the recording status of the local device. TAG updated after System Status Update and Event.	Short	R/W	Default value	Unknown
				0	
				1	Local Recording



					COMMAND
				10	Stop Local Recording
				11	Start Local Recording SEC
				12	Start Local Recording REC
.Command	Command Camera	Short	R/W		COMMAND
				10	Stop DVR Recording
				11	Start DVR Recording
				20	Stop Local Recording
				21	Start Local Recording SEC
				22	Start Local Recording REC
					Table 1 OPC TAGe

Table 1 OPC TAGs

#### NOTE:

- Start and Stop DVR Recording is only available for some of DVR models. SRD-480D, SVR-9XX, SVR-16XX, SVR-3200 does not support this function.
- Start Local Recording can be SEC or REC format. The file is saved into the exe folder in the 'REC' folder.
  - SEC: This type of files could be played back using Samsung XNS ActiveX.
  - **REC: Video stream including small size player.**