



Channel Configuration - Edit & Remove Text, Replace Text, Ignore Message

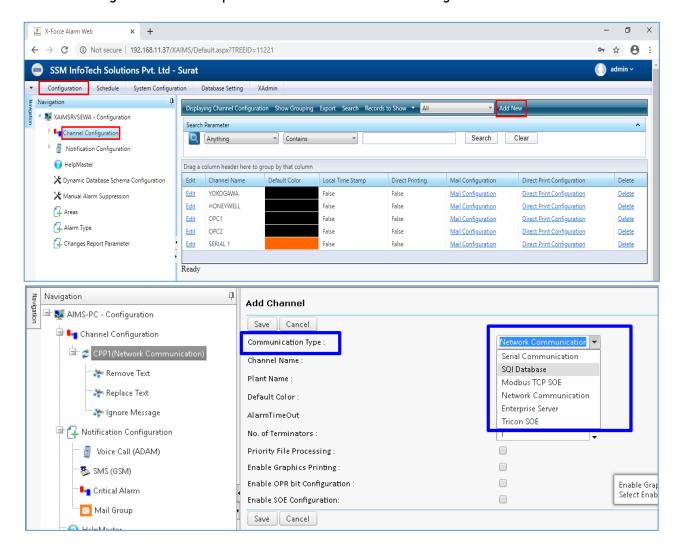
Channel is a soft interface to capture alarms from DCS/PLC. There are 2 types of communication.

- 1. Network communication
- 2. Serial Communication

New Channel Addition - Network Channel Addition

To Add new channel follow the below steps

Click on configuration tab -> Expand tree -> Click on Channel configuration -> Click on Add new tab.

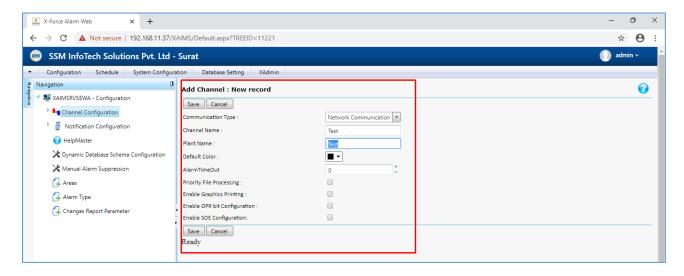






SR NO	FIELD NAME	DESCRIPTION
1	Communication Type	Communication type like Serial Communication, Network Communication, Enterprise, etc.
2	Channel Name	Name of the Channel
3	Plant Name	Plant name of the System
4	Default Color	Color of the channel
5	Alarm Time out	Duration for 1 alarm line ,Or timespan Upto that application will wait for complete alarm line
6	Priority File Processing	Whether it is Priority channel or not
7	Enable Graphics Printing	Whether to enable graphics printing for the channel or not
8	Enable OPR bit Configuration	Whether to enable OPR bit calculation or not for the channel
9	Enable SOE Configuration	Whether to process SOE data or not

Network communication can be performed using printer, User have to configure printer in network and can throw data on printer.









SR NO	FIELD NAME	DESCRIPTION
1	Channel Name	Name of the Channel
2	Local IP Address	Local IP Address of the system
3	Remote IP Address	Remote IP Address of the system
4	Backup IP Address	Backup IP Address of the system
5	PortNo	The Comport through which the Communication is going to take place. Pair between the two comport required that are used for the communication(if printer is configured then printer port no need to configure here)
6	Terminator1	The break of the line that is used by the DCS so that we can break the captured alarm into single alarm line.
7	Terminator 2	Same as the Terminator 1
8	Minimum Length	Maximum No of Alarm Line

Now, click on Save to finish channel creation...

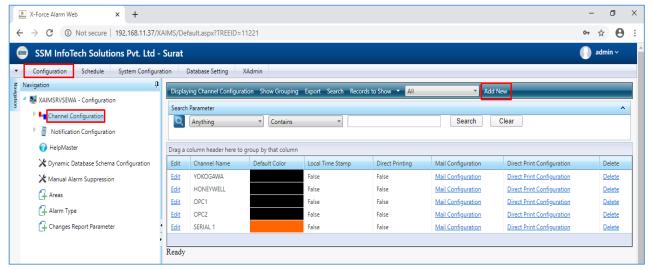




New Channel Addition - Serial Channel Addition

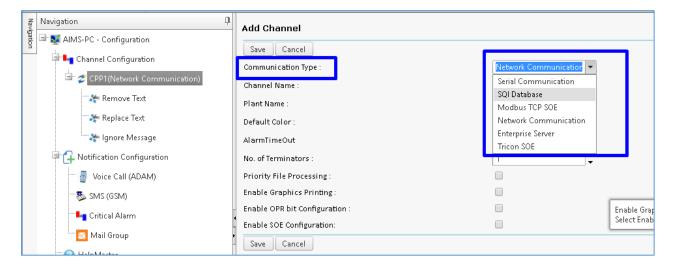
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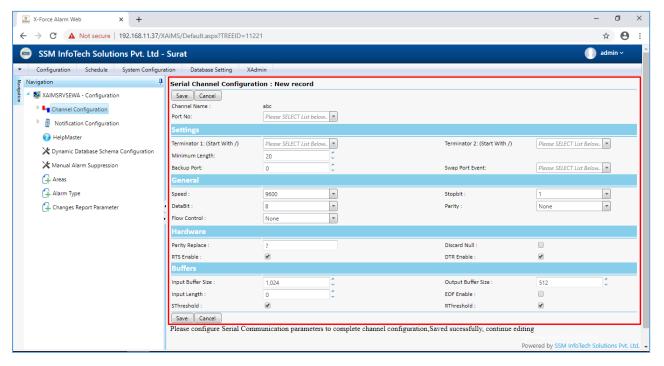
Now

select Serial communication in Communication Type-









SR NO	FIELD NAME	DESCRIPTION
1	Channel Name	Name of the Channel
2	Port No	The Comport through which the Communication is going to take place. Pair between the two comport required that are used for the communication
3	Terminator 1	The break of the line that is used by the DCS so that we can break the captured alarm into single alarm line.
4	Terminator 2	Same as the Terminator 1
5	Minimum Length	Maximum No of Alarm Line
6	Backup Port	The Port for backup if one not working.
7	Speed	The rate at which information is transferred in a communication channel
8	Stop bit	Stop bits separate each unit of data on an asynchronous serial
9	Data Bit	Two bytes are sent, each consisting of a start bit, followed by data bits
10	Parity	Parity bit in the communication
11	Flow Control	The extra input and outputs used on the serial device to perform this type of handshaking.
12	Parity Replace	To replace the parity bit during Communication
13	Discard Null	Gets or sets a value indicating whether null bytes are ignored when transmitted between the port and the receive buffer.
14	RTS Enable	To Enable the "Request To Send"
15	DTR Enable	DATA Terminal READY
16	Input Buffer Size	Size of the input buffer For sending data
17	Output Buffer Size	Size of the input buffer For Receiving data





18	Input Length	The Length of the data while Receiving
19	EOF Enable	To enable disable "END OF FILE"
20	SThreshold	Threshold Value for "Request To Send"
21	RThrshod	Threshold Value for "Request To Receive"

Serial channel configuration done.

Now, here you can learn how to add remove text, replace text and Ignore message.

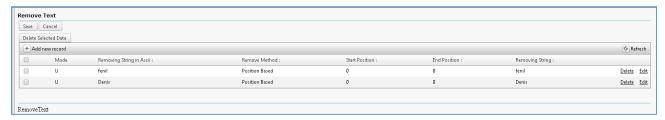




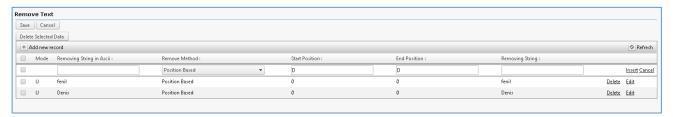
Remove Text

Here you can specify the text string/ASCII code of texts to be removed from messages. It is useful to remove escape sequence trails from the messages and some formatting command send to printer by control system.

Against each channel on click of **Remove text button** user can see the list of string that are configured for that channel to remove.



On click on Add New Record button in existing grid one row will be editable to add new entry.



User need to insert value for all required field

SR NO	FIELD NAME	DESCRIPTION
1	Removing String in Ascii	The string which you want to remove
2	Remove Method	Removal method like Position Based or Containing
3	Start Position	Start Position of removal string if remove method is Position Based.
4	End Position	End Position of removal string if remove method is Position Based.
5	Removing String	The string which is going to be removed.

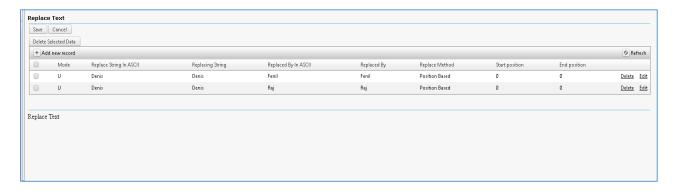




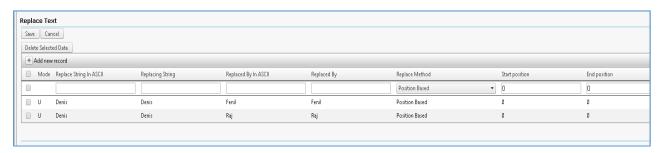
Replace Text

Here you can specify the text to be replaced with new text. This is useful to replace text which is printed by control system to something meaningful.

Against each channel on click of REPLACE text button user can see the list of configurations done for that channel for replace



On click of Add New Record button in existing grid one row will be editable to add new entry.



SR NO	FIELD NAME	DESCRIPTION
1	Replace String in ASCII	The string which you want to replace
2	Replacing string	The string which going to be replaced
3	Replace By in ASCII	The string which you want to replace with
4	Replaced By	The string which going to be replaced with
5	Replace Method	Replacing method like Position Based or Containing
6	Start Position	Start Position of replacing string if replace method is Position Based.
7	End Position	End Position of replacing string if replace method is Position Based.

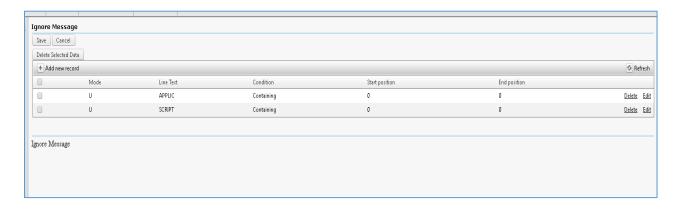




Ignore Message

Here you can specify the messages to be ignored. This feature is useful to ignore unnecessary message which is printed by control system.

Against each channel on click of **Ignore text button** user can see the list of ignore string that are configured for that channel.



User need to insert value for all required field

SR NO	FIELD NAME	DESCRIPTION
1	Line Text	Ignore alarm line if specified Line Text exist
2	Condition	Ignore condition like Position Based, Containing, Start With, End With
3	Start Position	Start Position of ignore string if condition is Position Based or Start with
4	End Position	End Position of ignore string if condition is Position Based or End with





Mail Configuration in Channel

If data is not coming Upto configure time Interval (Alarm Timeout) then if mail configuration has been done then mail will be triggered to configured person with configured message.

Mailer Enable: If this flag is having true value then only mail will trigger.

Save copy to send folder - Want to save mail in send item

Notification Time:

Mail Notification Reminder

Mail Type: Type of mail (Outlook, lotus notes, SMTP)

SMTP Server name: SMTP Server address if the Mail Type is SMTP

Mail From: Mail id from which mail need to trigger

Mail TO: Mail id on which mail need to send Mail CC: Mail ids which required in CC of mail Mail BCC: Mail ids which required in BCC of mail

Mail Subject: Subject line of mail Body: Main body content of mail

Direct Print Configuration

If User want to see all logs on paper then user can configure direct print feature by that user will get all data logs on printer.

User need to configure all below fields

Printer Type: Select printer type Laser jet/Desk Jet Printer or DotMatrix Printer

Printer Name: Select print on through which you need to print data

No of Lines:

Port No: Printer port no

Speed: The rate at which information is transferred in a communication

Data Bit: Two bytes are sent, each consisting of a start bit, followed by data bits

 $\textbf{Flow Control}: The \ extra \ input \ and \ outputs \ used \ on \ the \ serial \ device \ to \ perform \ this \ type \ of \ handshaking.$

Stop Bit: Stop bits separate each unit of data on an asynchronous serial

Parity: Parity bit in the communication

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RTS Enable: DATA Terminal READY

Discard Null: Gets or sets a value indicating whether null bytes are ignored when transmitted between the Port and the

receive buffer

DTR Enable: To Enable the "Request To Send"

Buffer

Input buffer Size: Size of the input buffer For sending data Input Length: The Length of the data while Receiving

Output Buffer Size: Size of the input buffer For Receiving data

SThreshold: Threshold Value for "Request To Send" RThreshold: Threshold Value for "Request To Receive"