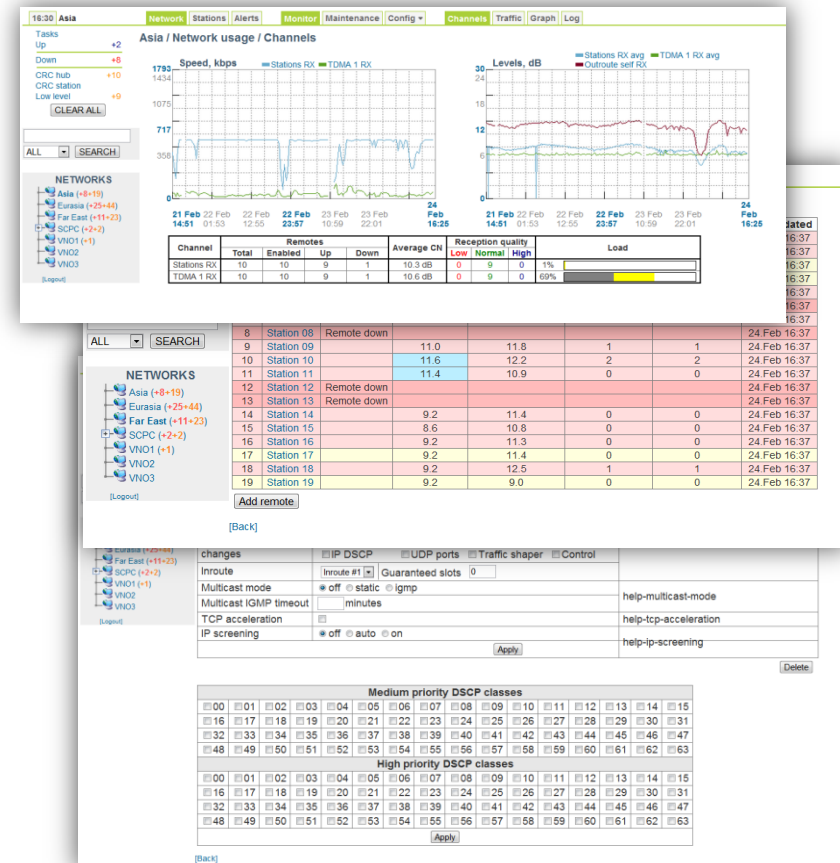


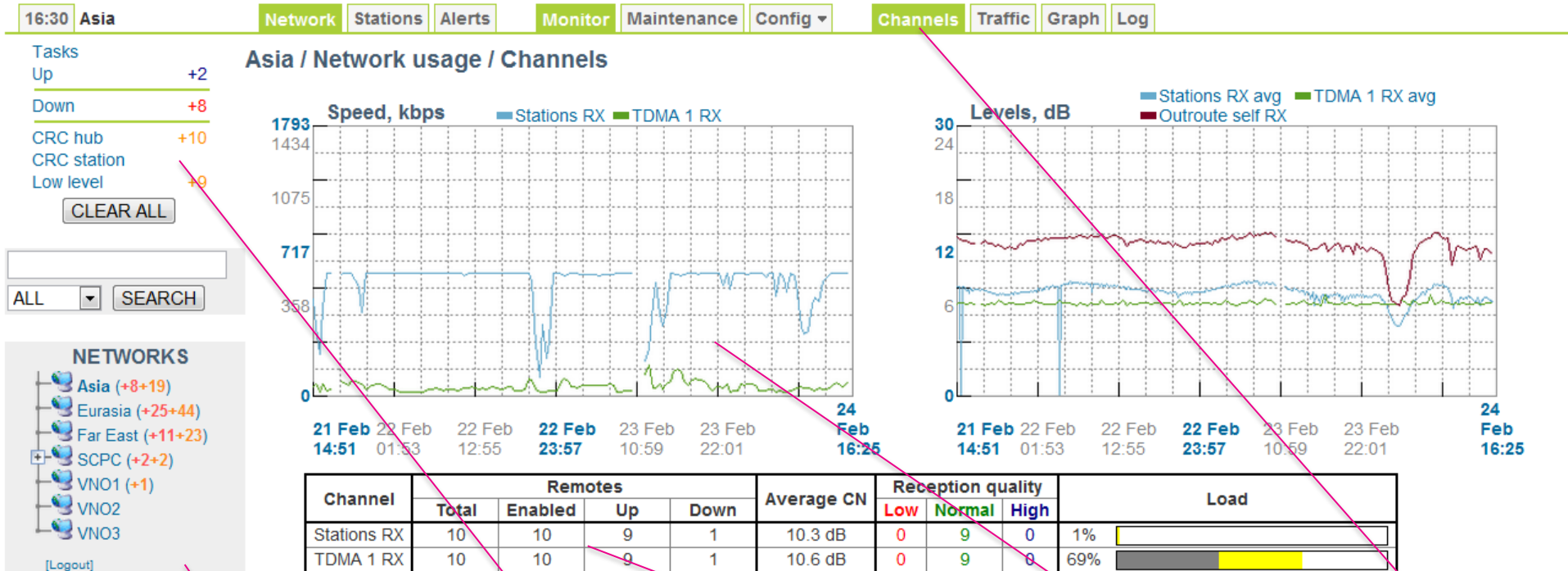


СИСТЕМА УПРАВЛЕНИЯ СЕТЬЮ УНР NMS 3.0

Система управления сетью UHP NMS v3.0

- Графический интерфейс
 - Web доступ, многопользовательский
- Сводная информация на главной странице
 - Обзор всех сетей на одном экране
- Поддержка нескольких сетей
 - Единая точка управления всеми сетями
- Консоль виртуального оператора VNO
 - Управление своей частью сети
- Применима для сетей любого размера
 - От SCPC канала до масштабных сетей
- Расширенная статистика и анализ
 - Настраиваемые статистические отчеты
- Поддержка всех режимов работы UHP
 - SCPC, TDM/TDMA, Hubless TDMA





Единый
инструмент для
множества сетей
с поддержкой
VNO

Настраиваемые
динамические
группы событий

Суммарная
информация
о статусе сети

Настраиваемые,
масштабируемые
графики

Простая и
наглядная
навигация

UNP NMS 3.0 : Главная страница с
исчерпывающей информацией



Far East / All remotes

▲▼	Name ▲▼	Faults	Hub level,dB	Remote level, dB	TX speed, kbps	RX speed, kbps	Last updated
1	Station 01		9.2	9.9	0	0	24.Feb 16:37
2	Station 02		9.4	10.9	0	0	24.Feb 16:37
3	Station 03		9.2	11.4	1	1	24.Feb 16:37
4	Station 04		9.2	10.7	0	0	24.Feb 16:37
5	Station 05		9.2	11.2	3	35	24.Feb 16:37
6	Station 06	Remote down					24.Feb 16:37
7	Station 07		9.0	11.2	2	0	24.Feb 16:37
8	Station 08	Remote down					24.Feb 16:37
9	Station 09		11.0	11.8	1	1	24.Feb 16:37
10	Station 10		11.6	12.2	2	2	24.Feb 16:37
11	Station 11		11.4	10.9	0	0	24.Feb 16:37
12	Station 12	Remote down					24.Feb 16:37
13	Station 13	Remote down					24.Feb 16:37
14	Station 14		9.2	11.4	0	0	24.Feb 16:37
15	Station 15		8.6	10.8	0	0	24.Feb 16:37
16	Station 16		9.2	11.3	0	0	24.Feb 16:37
17	Station 17		9.2	11.4	0	0	24.Feb 16:37
18	Station 18		9.2	12.5	1	1	24.Feb 16:37
19	Station 19		9.2	9.0	0	0	24.Feb 16:37

Tasks
Up +1
Down +11
CRC hub +16
CRC station
Low level +7

CLEAR ALL

ALL

SEARCH

NETWORKS

- Asia (+8+19)
- Eurasia (+25+44)
- Far East (+11+23)
- SCPC (+2+2)
- VNO1 (+1)
- VNO2
- VNO3

Обзор
станций сети

Последние
события

Текущее
качество
радиолинии

Актуальная
пропускная
способность

Различные
варианты
представления
информации

Tasks

Up +2

Down +8

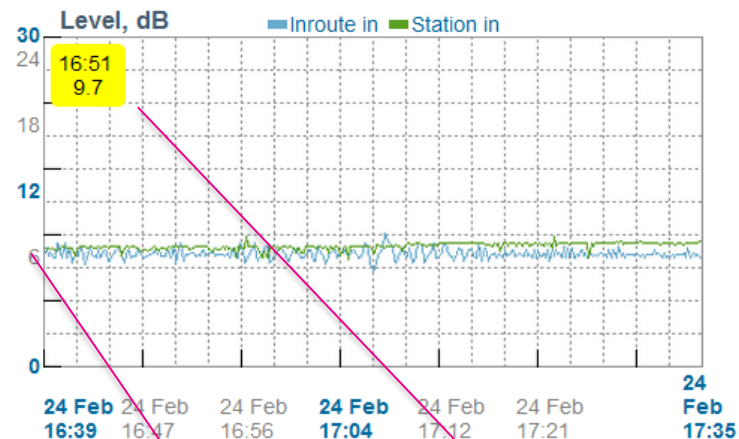
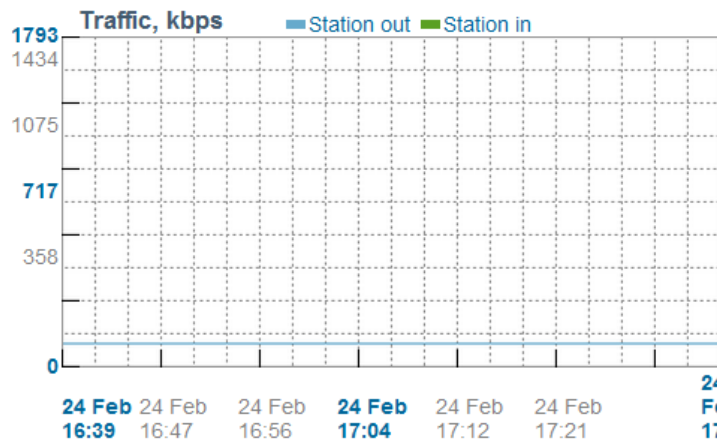
CRC hub +10

CRC station

Low level +9

CLEAR ALL

Asia / Station "Station 44"



Link	State	RX level, dB	Hub RX level, dB	RX speed, kbps	TX speed, kbps	Last fault	Last recovery	Last updated
Up	OK	10.6	11.2	0	0	24.Feb 17:34	24.Feb 17:35	24.Feb 17:35

Alerts [detailed]	Up	Down	CRC hub	Low level
-------------------	----	------	---------	-----------

Last 10 log entries

24.02.2012 16:57:50 CRC hub

17:01:00 CRC hub

Последние события со штампом времени

Текущее состояние

Список активных предупреждений

Масштабируемые графики состояния

Значения курсора

Asia / Group "Up"

▼▲	Name▲▼	First in	Last out	Flaps	Duration	Last clear
60	Station 60	19.Feb 13:36	24.Feb 04:28	25	5 d	17.Feb 19:23
61	Station 61	21.Feb 09:25	24.Feb 04:28	17	3 d	17.Feb 19:23

CLEAR

Group "Down"

▼▲	Name▲▼	First in	Last out	Flaps	Duration	Last clear
6	Station 06	18.Feb 07:59	24.Feb 04:29	23	45 m	17.Feb 19:23
18	Station 18	18.Feb 07:59	24.Feb 04:29	22	45 m	17.Feb 19:23
19	Station 19	18.Feb 07:59	24.Feb 04:29	22	44 m	17.Feb 19:23
20	Station 20	18.Feb 07:59	24.Feb 04:29	18	18 h	17.Feb 19:23
44	Station 44	17.Feb 19:25	24.Feb 16:26	127	6 h	17.Feb 19:23
58	Station 58	18.Feb 07:59	24.Feb 04:29	22	45 m	17.Feb 19:23
59	Station 59	18.Feb 07:59	24.Feb 17:08	24	164 s	17.Feb 19:23
62	Station 62	18.Feb 07:59	24.Feb 04:29	20	107 m	17.Feb 19:23

CLEAR

Group "CRC hub"

▼▲	Name▲▼	First in	Last out	Flaps	Duration	Last clear
6	Station 06	18.Feb 16:22	24.Feb 16:44	22	-	17.Feb 19:23
18	Station 18	18.Feb 12:33	23.Feb 12:12	12	-	17.Feb 19:23
19	Station 19	18.Feb 04:55	23.Feb 19:28	21	-	17.Feb 19:23
20	Station 20	17.Feb 19:56	24.Feb 11:06	30	-	17.Feb 19:23
44	Station 44	17.Feb 19:23	24.Feb 17:20	127	-	17.Feb 19:23
58	Station 58	17.Feb 19:56	24.Feb 05:49	24	-	17.Feb 19:23
59	Station 59	17.Feb 19:56	24.Feb 15:20	103	-	17.Feb 19:23
60	Station 60	19.Feb 13:37	24.Feb 16:45	16	-	17.Feb 19:23
61	Station 61	21.Feb 14:09	23.Feb 14:22	5	-	17.Feb 19:23
62	Station 62	18.Feb 16:22	24.Feb 16:51	17	-	17.Feb 19:23

CLEAR

Group "Low level"

▼▲	Name▲▼	First in	Last out	Flaps	Duration	Last clear
6	Station 06	19.Feb 14:24	19.Feb 14:25	1	-	17.Feb 19:23
19	Station 19	19.Feb 14:01	19.Feb 14:24	1	-	17.Feb 19:23
20	Station 20	24.Feb 10:43	24.Feb 11:13	2	29 m	17.Feb 19:23
44	Station 44	17.Feb 19:56	24.Feb 16:09	124	147 m	17.Feb 19:23
58	Station 58	22.Feb 21:08	22.Feb 21:08	1	-	17.Feb 19:23
59	Station 59	18.Feb 00:10	24.Feb 12:44	20	2 h	17.Feb 19:23
60	Station 60	19.Feb 16:44	24.Feb 03:47	28	77 m	19.Feb 13:36

Asia / Group "Up"

▼▲	Name▲▼	Faults	Hub level,dB	Remote level, dB	TX speed, kbps	RX speed, kbps	Last updated
6	Station 06		10.4	11.0	0	0	24.Feb 17:25
18	Station 18		10.0	11.1	3	0	24.Feb 17:25
19	Station 19		10.2	11.0	15	3	24.Feb 17:25
20	Station 20		9.8	10.5	788	55	24.Feb 17:25
44	Station 44		10.4	9.9	0	0	24.Feb 17:25
58	Station 58		10.0	11.8	0	0	24.Feb 17:25
59	Station 59		10.2	8.4	0	0	24.Feb 17:25
60	Station 60		9.8	9.2	0	0	24.Feb 17:25
					0	0	24.Feb 17:25
					0	0	24.Feb 17:25

CLEAR

Детальная информация для анализа статуса

▼▲	Name▲▼	Faults	Hub level, dB	Remote level, dB	TX speed, kbps	RX speed, kbps	Last updated
18	Station 18		10.0	11.1	3	0	24.Feb 17:25
19	Station 19		10.2	11.0	15	3	24.Feb 17:25
20	Station 20		9.8	10.5	788	55	24.Feb 17:25
44	Station 44		10.4	9.9	0	0	24.Feb 17:25
58	Station 58		10.0	11.8	0	0	24.Feb 17:25
59	Station 59		10.2	8.4	0	0	24.Feb 17:25
60	Station 60		9.8	9.2	0	0	24.Feb 17:25
61	Station 61		10.4				24.Feb 17:25
62	Station 62		10.2				24.Feb 17:25

CLEAR

Удобные для сравнения группы предупреждений

Group "CRC hub"

▼▲	Name▲▼	Faults	Hub level,dB	Remote level, dB	TX speed, kbps	RX speed, kbps	Last updated
6	Station 06		10.4				24.Feb 17:25
18	Station 18		10.0	11.1	3	0	24.Feb 17:25
19	Station 19		10.2	11.0	15	3	24.Feb 17:25
20	Station 20		9.8	10.5	788	55	24.Feb 17:25
44	Station 44		10.4	9.9	0	0	24.Feb 17:25
58	Station 58		10.0	11.8	0	0	24.Feb 17:25
59	Station 59		10.2	8.4	0	0	24.Feb 17:25
60	Station 60		9.8	9.2	0	0	24.Feb 17:25
61	Station 61		10.4	11.1	0	0	24.Feb 17:25
62	Station 62		10.2	11.6	0	0	24.Feb 17:25

CLEAR

17:50 Eurasia

Network

Stations

Alerts

Monitor

Maintenance

Config ▾

Tasks

Up

Down

CRC hub +1

CRC station

Low level

CLEAR ALL

ALL ▾

SEARCH

NETWORKS

Asia (+1+2)

Eurasia (+1)

Far East (+1+6)

SCPC

VNO1

VNO2

VNO3

[Logout]

Eurasia / Global settings

Hub

Network number	1	
Satellite longitude (DDD.DD)	96.5	Partial satellite location.
Outroute longitude (DDD.DD)	55.75	Hub location.
Outroute latitude (DD.DD)	37.62	Longitude - west: -180 .. 0, east - 0 .. 180
		Latitude - south: -90 .. 0, north: 0 .. 90

Display groups

☒ Up
 ☒ Down
 ☒ CRC hub
 ☒ CRC station
 ☒ Low level

Traffic shaper settings

Channel bandwidth	10000	kbps
Slope factor	16	

NMS server settings

Hub version	☒ UHP 2.4 ☐ UHP 2.5 ☐ ES 1.0
Outroute IP address	81.200.85.189
Inroute 1 IP address	81.200.85.189
Password	test

SNMP settings

Write community	
Read community	

Dashboard

Operators (VNO)

Add hub operator

Permissions

Users

Shaper

Hub

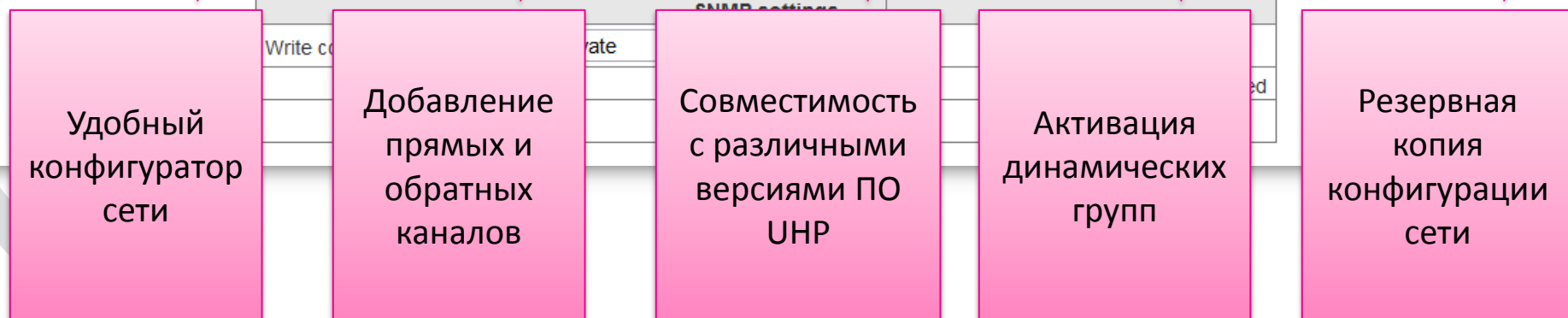
Outroute

Inroutes

Groups

Organizations

Recovery



18:08 Asia

Tasks
Up +10
Down +1
CRC hub +2
CRC station
Low level +1
CLEAR ALL

ALL SEARCH

NETWORKS
Asia (+1+3)
Eurasia (+2)
Far East (+4+4)
SCPC
VNO1
VNO2
VNO3
[Logout]

Network Stations Alerts Monitor Maintenance Config

Dashboard
Contact
Settings
Routing

Asia / Station "Station 58" / General settings

Faults			
Name	Station 58		
Location			
Longitude (DDD.DD)			Station location. Longitude - west: -180 .. 0, east - 0 .. 180 Latitude - south: -90 .. 0, north: 0 .. 90
Latitude (DD.DD)			
Number	58		
Serial number	29c32		
Enable	☒		
Allow local changes	☒ IP addresses ☐ IP routes ☐ IP maps ☐ RX SVLAN ☐ IP DSCP ☐ UDP ports ☐ Traffic shaper ☐ Control		
Inroute	Inroute #1	Guaranteed slots 0	
Multicast mode	☒ off ☐ static ☐ igmp		help-multicast-mode
Multicast IGMP timeout			minutes
TCP acceleration	☐		help-tcp-acceleration
IP screening	☒ off ☐ auto ☐ on		help-ip-screening

Apply Delete

Medium priority DSCP classes

00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
17	22	27	32	37	42	47	52	57	62	67	72	77	82	87	92
33	38	43	48	53	58	63	68	73	78	83	88	93	98	103	108
49	54	59	64	69	74	79	84	89	94	99	104	109	114	119	124
01	06	11	16	21	26	31	36	41	46	51	56	61	66	71	76
17	22	27	32	37	42	47	52	57	62	67	72	77	82	87	92
33	38	43	48	53	58	63	68	73	78	83	88	93	98	103	108
49	54	59	64	69	74	79	84	89	94	99	104	109	114	119	124

Добавить или изменить конфигурацию терминала

Управление ключевыми параметрами

Определение приоритетов для DHCP классов

Сохранить конфигурацию или добавить станцию

Редактор маршрутных таблиц

УНР NMS 3.0 : Конфигурация терминалов

ИСТАР