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Cyfrowy rejestrator rozmów MiRek

INSTRUKCJA OBSŁUGI

Wersja **1.1** Listopad 2024
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1: Wstęp

1.1 Opis urządzenia

Rejestrator Mirek jest samodzielnym urządzeniem umożliwiającym nagrywanie rozmów telefonicznych, radiotelefonicznych oraz innych sygnałów, nadawanych w paśmie akustycznym (np. faksów, sygnałów tonowych, FSK).

Rejestratory mogą być podłączane do linii telefonicznych:

- analogowych,
- ISDN (BRI lub PRI),
- systemowych - większości popularnych producentów central telefonicznych.

Urządzenia TRX umożliwiają także rejestrację dźwięku z innych źródeł akustycznych np. mikrofonów.

System operacyjny rejestratorów (oparty na jądrze Linuks) zainstalowany jest na dedykowanej pamięci FLASH. Dysk twardy SSD przeznaczony są wyłącznie do magazynowania rozmów oraz logów systemu.

Wbudowany wyświetlacz LCD umożliwia:

- podgląd informacji o stanie pracy urządzenia (alarmy, zajętość kanałów),
- podgląd konfiguracji interfejsów sieciowych (adres IP, maska, brama sieci).

Do nadzoru i obsługi urządzenia wykorzystywane jest środowisko sieci komputerowej TCP/IP oraz oprogramowanie TRX (głównie *Konsola 2*) pracujące w środowisku Windows i przeglądarka internetowa.

Rejestrator MiRek przystosowany jest do pracy w trybie ciągłym (24h/dobę).

1.2 Parametry użytkowe

Rejestratory MiRek produkowane są w wersjach sprzętowych:

	MiRek		
	8 analogowych	8 cfrowych	4 analogowe 4 cyfrowe
Napięcie zasilania	12V-24V dołączony zasilacz 230 V AC/12 V DC		
Pobór mocy	6 W		
Poziom sygnałów analogowych	50 mV - 2 V automatyka z kompresją dynamiki		
Wymiary:	175 x 120 x 27 mm		
Wyświetlacz	LCD 2 x 20		
Max liczba kanałów	8		
Obsługa lokalna	1-przycisk		
Obsługa zdalna	sieć LAN/ WAN, TCP/IP, Ethernet		
Bufor nagrań	zależny od HDD (8 kB na 1s nagrania) np. dla HDD 500 GB - 15 000 godz.		

2: Podłączenie i uruchomienie rejestratora

2.1 Zawartość opakowania

Wewnątrz opakowania powinny znaleźć się następujące elementy:

- rejestrator,
- zasilacz 230V AC/ 12V DC,

2.2 Montaż rejestratora

Rejestrator MiRek przeznaczony jest do montażu jako urządzenie wolnostojące.

Wszelkie przyłącza: zasilania, gniazda wejść interfejsów nagrywania, gniazdo/gniazda sieci IP, umieszczone są na tylnej ścianie obudowy. Ze względu na taką konstrukcję urządzenia zaleca się montaż w sposób umożliwiający dostęp zarówno do panelu z przodu jak i tyłu rejestratora.

Po zamontowaniu urządzenia w należy doprowadzić źródło zasilania, podłączyć interfejs eth0 (gniazdo LAN 1) do sieci komputerowej, a następnie doprowadzić linie telefoniczne do gniazd interfejsów nagrywania.

UWAGA: Rejestrator powinien być zamontowany w sposób umożliwiający swobodny dostęp powietrza. Niedopuszczalne jest zakrywanie otworów wentylacyjnych urządzenia.

2.3 Warunki eksploatacji

Rejestratory mogą być użytkowane wyłącznie w pomieszczeniach zamkniętych. Urządzenie należy chronić przed przedostaniem się cieczy i wilgoci do jego wnętrza, a także przed nadmiernym ciepłem, zapyleniem i drganiami.

Graniczna dopuszczalna temperatura przechowywania	-30 ... +60 °C
Zalecana temperatura składowania (przechowywania)	+5 ... +40 °C
Dopuszczalna temperatura otoczenia w czasie pracy	+10 ... +25 °C
Wilgotność względna (bez kondensacji)	20 ... 80 %
Ciśnienie atmosferyczne	84 ... 107 kPa
Stopień ochrony obudowy	IP 20
Udary w czasie pracy	niedopuszczalne

2.4 Połączenie do sieci TCP/IP

Stację roboczą (stanowisko obsługi) stanowi jest komputer klasy PC, na którym uruchomione są programy do obsługi i/lub zarządzania pracą rejestratorów. Urządzenie może komunikować się za pośrednictwem sieci TCP/IP równocześnie z wieloma stacjami PC.

Do podłączenia rejestratora do sieci IP służy interfejs Ethernet 10/100/1000 Mb/s z gniazdem RJ-45 umieszczonym z tyłu obudowy.

Do komunikacji z rejestratorem wykorzystane są porty:

- 7777,
- 7776 - dla połączeń szyfrowanych SSL.

Aby zapewnić poprawną współpracę z urządzeniem w przypadku korzystania z zapór sieciowych należy mieć na uwadze, aby ww. porty były odblokowane.

2.5 Opis wejść nagrywania

Do podłączenia nagrywanych linii służy zestaw gniazd RJ-11 na tylnej ściance obudowy rejestratora.

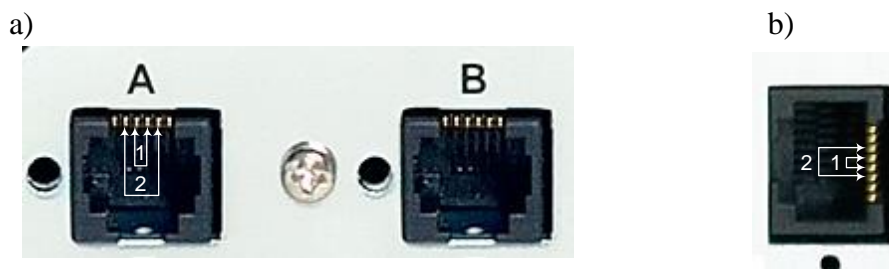
Do każdego rejestratora dobierany jest indywidualnie, zgodnie z zamówieniem, zestaw gniazd wejściowych pozwalających na obsługę wybranych przez klienta typów linii. Przed podłączeniem źródeł sygnału do urządzenia TRX należy zapoznać się ze specyfikacją portów przedstawioną w poniższej instrukcji. W kolejnych podpunktach zawarte są opisy poszczególnych pinów oraz schematy podłączenia rejestratora dla wybranych typów linii telefonicznych.

2.5.1 Linia analogowa

Podstawowym przeznaczeniem interfejsu analogowego jest obsługa tradycyjnych, analogowych linii telefonicznych oraz radiotelefonów. Możliwe są dwa sposoby podłączania sygnału do gniazda analogowego: szeregowo lub równoległe.

2.5.1.1 Połączenie szeregowe

Poniższy rysunek przedstawia opis poszczególnych pinów gniazda RJ-11 a) oraz RJ-45 b) dla połączenia szeregowego.



Opis gniazda RJ-11:

- 1 - piny 3, 4 – wejście sygnału
- 2 - piny 2, 5 – wyjście sygnału

Opis gniazda RJ-45 (moduł rozszerzeń dla modelu KSRC 5128)

- 1 - piny 4, 5 – wejście sygnału
- 2 - piny 3, 6 – wyjście sygnału

Uwaga: Pary 1 i 2 można stosować zamiennie (jedynie w tym przypadku).

Połączenie **szeregowe** zalecane jest do nagrywania rozmów z telefonów na **liniach analogowych**.

Dla tego rodzaju połączenia wykrycie rozpoczęcia rozmowy odbywa się poprzez detekcję podniesienia słuchawki w telefonie i co za tym idzie, wzrost natężenia prądu płynącego w linii. Jest to mechanizm znacznie bardziej niezawodny od detekcji poziomu sygnału audio (VOX) – stosowanego dla połączenia równoległego.

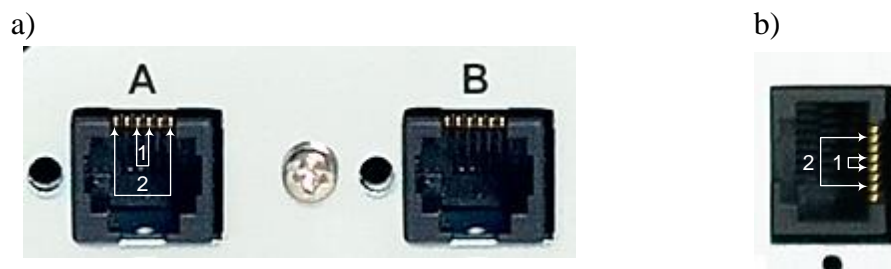
Uwaga: Korzystanie z opisanego mechanizmu kluczowania wymaga ustawienia typu „Kluczowany” dla kanału fizycznego rejestratora. Zobacz odpowiedni rozdział w podręczniku użytkownika programu Konsola 2.



Połączenie szeregowe linii analogowej

2.5.1.2 Połączenie równoległe

Poniższy rysunek przedstawia opis poszczególnych pinów gniazda RJ-11 a) oraz RJ-45 b) dla połączenia równoległego.



Opis gniazda RJ-11:

- 1 - piny 3, 4 – wejście sygnału
- 2 - piny 1, 6 – sygnał kluczący 3 - 12 V

Opis gniazda RJ-45 (moduł rozszerzeń dla modelu KSRC 5128)

- 1 - piny 4, 5 – wejście sygnału
- 2 - piny 2, 7 – sygnał kluczący 3 - 12 V

Drugą parę można wykorzystać, jako elektryczny włącznik rejestracji, podłączony do napięcia sterującego, którego źródłem może być np. niezależny przycisk, czujniki lub inne urządzenia umożliwiające sterowanie procesem nagrywania.

Uwaga: W przypadku połączenia równoległego należy ustawić typ „VOX” dla kanału fizycznego rejestratora. Zobacz odpowiedni rozdział w podręczniku użytkownika programu Konsola 2.



Podłączenie równoległe linii analogowej

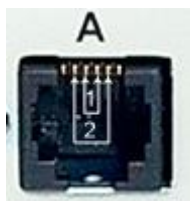
Połączenie **równoległe** przeznaczone jest do nagrywania rozmów z **radiotelefonów**. Może też być wykorzystane do nagrywania telefonów (analogowych), jako alternatywa dla połączenia szeregowego.

W konfiguracji z połączeniem równoległym rejestratora do linii automatyczne załączenie nagrywania możliwe jest tylko poprzez detekcję poziomu sygnału audio (VOX). W trybie tym nagrywanie jest rozpoczynane wówczas, gdy parametry sygnału (poziom, wypełnienie) będą większe od ustawionych wartości progowych.

Możliwe jest skonfigurowanie rejestratora do ręcznego sterowania nagrywaniem za pomocą podawania napięcia na zewnętrzną parę gniazda interfejsu.

2.5.2 Linia ISDN BRI

Gniazda tego typu służą do podłączenia linii 2B+D (BRI) na styku S/T. Rejestrator należy wpiąć równolegle do linii ISDN, zgodnie z podanym poniżej opisem. Gniazdo tego typu można łatwo odróżnić od innych, ponieważ sąsiedni otwór wypełniony jest przez dwa przełączniki oraz pojedynczą diodę kontrolną (rys.).



Opis gniazda RJ-11:

- 1 - piny 3, 4 – para nadawcza telefon,
- 2 - piny 2, 5 – para odbiorcza,

Zielona dioda kontrolna pokazuje **synchronizację** rejestratora z linią ISDN. W przypadku podłączenia telefonów bezpośrednio do zakończenia sieciowego NT1 może się ona gasnąć, jeśli linia jest beczynna dłużej niż jedną minutę. Jeśli jednak linia nie jest beczynna a dioda nadal nie świeci się na zielono, jest to sygnał ostrzegawczy niewłaściwego połączenia.

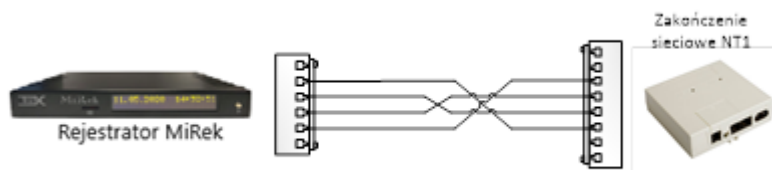
W przypadku linii ISDN 2B+D rejestrator można podłączyć bezpośrednio do jednego z gniazd S/T w urządzeniu NT1, albo w przypadku zajęcia obu tych gniazd – równolegle do jednego z aparatów cyfrowych. W obu przypadkach rejestrowane będą rozmowy prowadzone na wszystkich (dwóch) kanałach B linii ISDN.



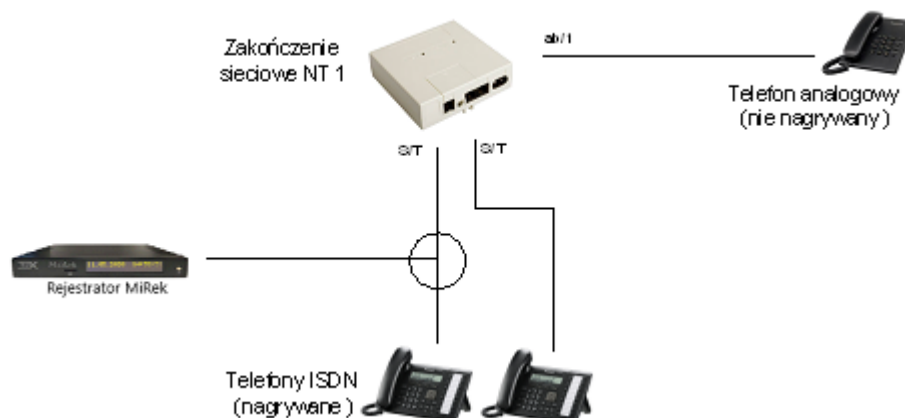
Schemat podłączenia rejestratora bezpośrednio do gniazda S/T

Uwaga: W przypadku podłączenia do zakończenia sieciowego NT1 telefonów analogowych, (do gniazd ab1 i/lub ab2) – rozmowy z tych aparatów nie będą rejestrowane. Aby umożliwić nagrywanie tych telefonów należy wykonać oddzielne połączenie z rejestratora do każdego używanego gniazda analogowego.

W przypadku zastosowania powyższego schematu połączenie rejestratora do styku S/T należy wykonać za pomocą kabla RJ-11 – RJ-45 (lub RJ-45 – RJ-45 dla modułu rozszerzeń). o układzie żył „rollover”:

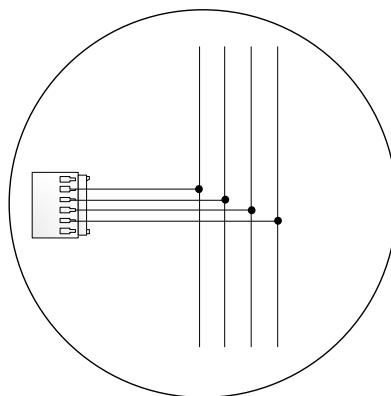


Schemat kabla pomiędzy gniazdem rejestratora (RJ-11) a gniazdem S/T (RJ-45)



Schemat podłączenia rejestratora równoległe do linii telefonu

Poniżej zaprezentowany jest schemat połączeń poszczególnych żył kabli w miejscu wpięcia rejestratora (obszar zaznaczony na powyższym schemacie kółkiem).



Schemat połączenia równoległego

W przypadku potrzeby nagrywania wszystkich aparatów (analogowych i cyfrowych) podłączonych do zakończenia sieciowego NT1, schemat połączenia rejestratora wygląda jak na rysunku poniżej.

Dla połączeń z aparatami analogowymi obowiązują te same reguły, jak opisane przy omawianiu gniazd analogowych (punkt *Linia analogowa*).

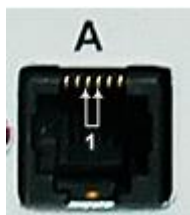


Połączenie w przypadku rejestracji zarówno z telefonów analogowych jak i cyfrowych.

Należy pamiętać, że jedna linia cyfrowa ISDN 2B+D powoduje zajętość dwóch kanałów rejestratora. W przypadku połączenia wykonanego według ostatniego schematu, zajęte są cztery kanały rejestratora (2 kanały z gniazda ISDN oraz kolejne dwa z gniazd analogowych ab).

2.5.3 Gniazda systemowe, równoległe (*parallel*).

Wejścia kart systemowych oparte są o gniazda typu RJ-11 (karty dwu- lub cztero gniazdowe) lub RJ-45 (moduł rozszerzeń – tylko karty cztero gniazdowe). Do pracy wykorzystywana jest wyłącznie środkowa para przewodów.



Opis gniazda RJ-11:

1 – piny 3, 4 (połączenie **równoległe** do linii systemowej)

Karty systemowe służą do nagrywania rozmów z telefonów systemowych pracujących w firmowych standardach Up0 większości popularnych systemów PBX (m. in. Alcatel, Avaya, DGT, Siemens, Panasonic, Platan, Slican). Karta obsługuje jednocześnie nagrywanie linii systemowych tylko jednego producenta.



Połączenie równoległe z linią systemową

Karty tego typu należy podłączyć (do środkowej pary pinów) równoległe z linią telefoniczną w sposób pokazany na powyższym schemacie.

Każde gniazdo tego typu posiada dwie diody sygnalizacyjne, informujące o stanie synchronizacji z linią. Dioda czerwona umieszczona obok gniazda informuje, podobnie jak w przypadkach linii ISDN, o utracie synchronizacji z linią. Jej świecenie najczęściej związane jest z okablowaniem. Zielona dioda (umieszczona obok zatrzasku wewnątrz gniazda), informuje o poprawnym podłączeniu do linii.

2.6 Zewnętrzne źródła synchronizacji czasu

Do gniazda USB umieszczonego w tylnej części obudowy można podłączyć zewnętrzne urządzenie do synchronizacji czasu, pracujące w standardzie DCF77 lub GPS NMEA. Urządzenie to pozwala na korekcję czasu wskazywanego przez wewnętrzny zegar rejestratora. Dzięki temu możliwe będzie precyzyjne ustalenie czasu rozpoczynania i kończenia nagrywanych rozmów.

Rejestrator może również korzystać z serwerów czasu dostępnych w sieci komputerowej. W tym celu wykorzystywany jest sieciowy protokół *NTP* (Ne-

twork Time Protocol). Więcej informacji na ten temat można znaleźć w podręczniku użytkownika programu *Konsola 2*.

2.7 Zasilanie sieciowe

Rejestratory zasilane są jednofazowym napięciem przemiennym 230 V, 50 Hz. Wejście kabla zasilającego umieszczone jest w tylnej części obudowy. Aby zapewnić uziemienie obudowy urządzenia kabel zasilający należy podłączyć do gniazda z uziemieniem. W szczególnych wypadkach mogą to być gniazda z „zerowaniem” bolca ochronnego. Przewód zasilający powinien być umieszczony tak, aby zapobiec przypadkowemu wyrwaniu wtyku z gniazda zasilacza.

Na potrzeby klientów dostarczane są także wersje dostosowane do pracy z innymi źródłami zasilania (m. in. napięciem stałym 48 V).

2.8 Uruchomienie urządzenia

Po włączeniu zasilania rejestratora, następuje jego automatyczne uruchomienie. Włącza się podświetlenie ekranu LCD. Przez około minutę trwa inicjalizowanie wewnętrznych ustawień rejestratora, którym towarzyszy wyświetlanie krótkich komunikatów na wyświetlaczu. Jeśli inicjacja przebiega pomyślnie - wszystkie powinny być opatrzone etykietą „[OK]”.

Po zakończeniu inicjalizacji automatycznie uruchamia się ekran stanu rejestratora.

2.8.1 Pierwsze uruchomienie

Pierwsze uruchomienie rejestratora wymaga:

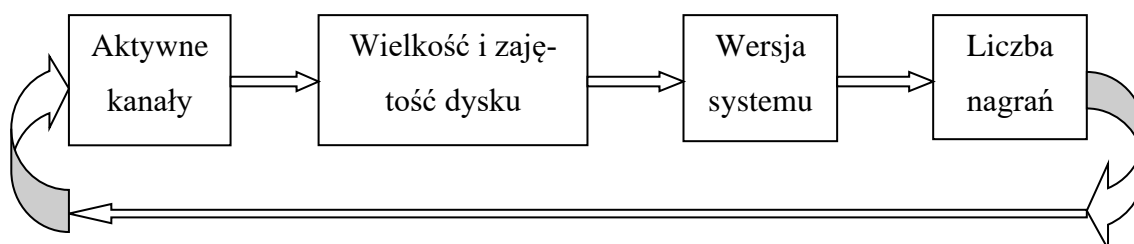
Przyciskając przycisk obok wyświetlacza wyświetlają się informacje”

- wielkość dysku z nagraniami i jego zajętość
- ilość nagrań i ich łączny czas
- ustawienia sieciowe. Edycja przez przeglądarkę WEB
- informacje o wersji sprzętowej i oprogramowania

2.9 Obsługa ekranów informacyjnych

Po włączeniu zasilania i rozpoczęciu przez rejestrator pracy, na wyświetlaczu pojawia się ekran z datą i aktualnie aktywnymi kanałami. Za pomocą przycisku następuje przełączanie pomiędzy ekranami.

Posługując się klawiszem możemy przełączać się pomiędzy ekranami w następującej kolejności:



Jeżeli treść wyświetlacza przekracza 2 linie tekstu, jego zawartość jest automatycznie odświeżana i przesuwana o jeden wiersz w górę lub w dół.

2.9.1 Ekran „Aktywne kanały”

Ekran przedstawiony poniżej pokazuje się standardowo po rozpoczęciu pracy rejestratora i wyjściu z menu administracyjnego.

31.12.2012	09:35:05
.....	

W pierwszej linii wyświetlacza (licząc od góry) jest wyświetlana data i godzina zegara systemowego. W linii wyświetlane aktywne kanały, czyli te, na których aktualnie jest prowadzona rejestracja.

Symbol w postaci kropki oznacza, że dany kanał aktualnie nie rejestruje rozmowy, Cyfra (od 1 do 8) oznacza kanał w stanie nagrywania. Jeśli nie ma ani kropki ani cyfry, oznacza to, że kanał jest fizycznie niedostępny (brak wyposażenia sprzętowego).

Standardowo rejestrator MiRek pracują z własnym zegarem. Jeżeli urządzenie zostało skonfigurowane do pracy z zewnętrznym wzorcem czasu - serwerem NTP, stan wyświetlacza dostarcza także informacje o stanie synchronizacji wewnętrznego zegara rejestratora. Informacje te są komunikowane przez miganie pierwszej linii ekranu. Miganie o okresie 1 sekundy oznacza utratę synchronizacji z zadanyim serwerem. Miganie dwukrotnie szybsze oznacza, że trwa weryfikacja nawiązanego połączenia i zegary są w trakcie synchronizowania się. Brak migania natomiast oznacza pełną synchronizację. Proces synchronizacji występuje zawsze po włączeniu zasilania urządzenia.

2.9.2 Ekran „Wielkość i zajętość dysku”

Ekran przedstawia informację o temperaturze, pojemności dysku twardego, który służy do przechowywania danych oraz zajętości miejsca przez dotychczas zgromadzone nagrania. W momencie zapelnienia całej dostępnej przestrzeni na nagrania, rejestrator zaczyna nadpisywanie najstarszych rekordów. Pozostałe wiersze zawierają informacje o czasie pracy urządzenia od ostatniego restartu i obciążeniu procesora.

Dysk :	157.5GB
Wolne:	50%

2.9.3 Ekran „Liczba nagrań”

Na tym ekranie jest umieszczona data rejestracji najstarszego nagrania w systemie oraz liczbie wszystkich nagrań na dysku rejestratora.

Wsz.nagran:	875
2024.05.22	13:02:46

2.9.4 Ekran „Ustawienia sieciowe

Net:	LAN1
172.16.200.13	/16

W drugiej linii wyświetlane są sekwencyjnie informacje:

- Adres IP i maska
- MAC adres karty sieciowej
- Stan połączenia sieciowego Up/Down

2.9.5 Ekran „Wersja systemu”

Pokazuje model i numer seryjny rejestratora oraz wersję i datę systemu zainstalowaną w rejestratorze. Numer seryjny jest unikalny dla każdego egzemplarza i powinien być zgodny z nalepionym na tylnej części obudowy.

TRX MiRek Analog
sn: 2024110101

sw version 2.2.2.1/08.03.2024PC

Cache : 0.00% uptime: 13h 02m 46s

fwcpu: 1.3.65 cpu temp: 48.1 *C

Informacje te są istotne ze względów serwisowych, i powinny być podane w przypadku zgłoszeń usterkowych.

3: Instalacja oprogramowania

3.1 Instalacja

Podstawowym programem służącym do obsługi rejestratora, (m.in. wyszukiwania i odsłuchiwanie zarejestrowanych nagrań a także ich archiwizacji) jest *Konsola 2*. Konfiguracja jest dostępna przez przeglądarkę www. Pełny zestaw obecnie rozwijanych aplikacji TRX przeznaczonych do pracy z rejestratorami TRX zawiera następujące programy:

1. *Konsola 2* – standardowy program obsługi rejestratorów.
2. *Automat 2* – aplikacja do automatycznego archiwizowania nagrań w postaci plików o rozmiarach umożliwiającym zapis na dyskach CD/DVD (program płatny).
3. *Monitor 2* – program pozwalający na zdalną kontrolę stanu pracy urządzeń, umożliwiający wykrywanie nieprawidłowości lub awarii.

Aplikacje oraz instrukcje obsługi każdego z ww. programów znajdują się na stronie www.trx.com.pl w dziale „Pliki do pobrania”.

3.2 Uaktualnienia

3.2.1 Uaktualnienie oprogramowania stacji roboczej

Oprogramowanie rejestratorów jest cały czas w trakcie udoskonalania. Najnowsza wersja oprogramowania znajduje się na witrynie internetowej firmy TRX (www.trx.com.pl w dziale „Pliki do pobrania”).

Przed zainstalowaniem nowej wersji oprogramowania należy usunąć poprzednią wersję. W tym celu należy wybrać na pulpicie Windows: *Start* → *Panel sterowania* | *Dodaj / Usuń programy* | *TRX...* albo poprzez program *Usuń wszyst-*

kie programy w katalogu programów Menu Start (*Start → Programy → TRX → Usuń wszystkie programy*).

Następnie należy uruchomić instalator nowej wersji programu. Zainstalowanie go w tym samym katalogu, co poprzednio pozwoli zachować dotychczasowe ustawienia programu, takie jak zapamiętane adresy IP rejestratorów, hasła dostępu itp.

3.2.2 Uaktualnienie oprogramowania rejestratora

Na stronie producenta udostępniona jest także najnowsza wersja oprogramowania (firmware) rejestratorów. Plik aktualizacji należy zaimportować do rejestratora za pomocą przedglądarki (funkcja ta dostępna jest tylko dla użytkowników posiadających prawa administratora) Specyfikacja techniczna

3.3 Właściwości rejestratorów KSRC

- Rejestrator jest urządzeniem samodzielnym i niezależnym, obsługiwanym zarówno lokalnie jak i zdalnie poprzez sieć komputerową LAN przy pomocy dostarczonego oprogramowania.
- Dane przesyłane pomiędzy rejestratorem, a stacją roboczą (programem obsługującym) mogą być szyfrowane (SSL).
- Do listy nagrań dołączane są informacje o dacie i czasie trwania połączenia.
- Istnieje możliwość definiowania oddzielnych kryterium zapisu dla poszczególnych kanałów urządzenia (kluczowanie, VOX itd.).
- Sygnalizacja stanu nagrywania każdego dołączonego urządzenia.
- Kontrolaapełnienia dysku twardego – automatyczne nadpisywanie najstarszych nagrań..
- Automatyczna korekcja czasu letni / zimowy.
- Odsluch lub monitoring dowolnego kanału bez przerywania zapisu.
- Archiwizacja zapisów na standardowym komputerze do postaci zbiorczego archiwum oraz pojedynczych plików *.wav.
- Wyświetlanie wybieranych numerów telefonicznych i identyfikacja selektywnego wywołania.
- Wyświetlanie zawartości wyświetlaczy aparatów systemowych (wybrane systemy).
- Synchronizacja z zewnętrznym wzorcem czasu lub z sieci komputerowej (protokół NTP).
- Wyświetlanie komunikatów w językach: polskim i angielskim.
- Obsługa wielu użytkowników jednocześnie przez sieć na komputerach PC z kartami dźwiękowymi.
- Obsługa identyfikacji numerów przychodzących i wybieranych (linie ISDN, i analogowe z FSK).
- Współpraca z liniami systemowymi różnych producentów.

4: Opis elementów obudowy

Panel przedni:



Tył obudowy:



- 1) Wyświetlacz LCD 2 x 20 znaków.
- 2) Przycisk zmiany wyświetlanych informacji.
- 3) Gniazdo zasilania DC 10V-28V
- 4) Zestawy wejść kanałowych z 6-pinowymi gniazdami typu RJ-11.
- 5) Gniazdo RJ-45 do podłączenia rejestratora do sieci komputerowej TCP/IP.

Licencje TRX

Programy do konfiguracji i obsługi rejestratorów (wyszukiwana, przeglądania i odsłuchu rozmów) stanowią jedną całość z zakupionym przez użytkownika sprzętem. Działanie tych programów nie podlega ograniczeniom czasowym, a najnowsze wersje są do pobrania na stronie: www.trx.com.pl.

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##

ISC Cron - January 2004
[V4.0 was November, 2000]
[V4.0b1 was September 7, 1997]
[V3.1 was some time after 1993]
[V3.0 was December 27, 1993]
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta was December 9, 1988]
[V1.0 was May 6, 1987]
ftp://ftp.isc.org/isc/cron/

This is a version of 'cron' that is known to run on most systems. It
is functionally based on the SysV cron, which means that each user can have
their own crontab file (all crontab files are stored in a read-protected
directory, usually /var/cron/tabs). No direct support is provided for
'at'; you can continue to run 'atrun' from the crontab as you have been
doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files
"allow" and "deny" in /var/cron can be used to control access to the
"crontab" command (which installs crontabs). It hasn't been tested on
SysV, although some effort has gone into making the port an easy one.

To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll
have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files
Edit config.h
Edit Makefile
    (both of these files have instructions inside; note that
    some things in config.h are definable in Makefile and are
    therefore surrounded by #ifndef...#endif)
'make'
'su' and 'make install'
    (you may have to install the man pages by hand)
kill your existing cron process
    (actually you can run your existing cron if you want, but why?)
build new crontabs using /usr/lib/{crontab,crontab.local}
    (either put them all in "root"'s crontab, or divide it up
    and rip out all the 'su' commands, collapse the lengthy
    lists into ranges with steps -- basically, this step is
    as much work as you want to make it)
start up the new cron
    (must be done as root)
watch it. test it with 'crontab -r' and watch the daemon track your
changes.
if you like it, change your /etc/{rc,rc.local} to use it instead of
the old one.
```

```
$Id: README,v 1.6 2004/01/23 19:03:32 vixie Exp $
```

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```
lib/gssapi/generic/gssapi_err_generic.et  
lib/gssapi/mechglue/g_accept_sec_context.c  
lib/gssapi/mechglue/g_acquire_cred.c  
lib/gssapi/mechglue/g_canon_name.c  
lib/gssapi/mechglue/g_compare_name.c
```

```
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
```

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