



Teletics

Feature Server RM

Installation and User Guide

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Introduction

The Teletics Feature Server RM is a network appliance that provides the central PBX functionality such as two digit local calling, public address, group ring and conference call capabilities to a Teletics w*intercom (or older WKSU-PA) system. The Feature Server RM also provides 4 outside line in/out routing.

The Teletics Feature Server RM is ready to be used “out of the box” with local 2 digit extension calling, public address paging, outbound line in/out routing and local conferencing calling. Most customers using this product will never need to do any programming. However, customers wishing to add additional features or to integrate non Teletics devices into a w*intercom system are provided with a web interface to allow customization of the Feature Server RM if desired.

More information on custom programming is available through your Teletics support team. Additional documentation on custom programming and feature development can be obtained from the Teletics Feature Server Handbook.

This device is designed to fit into a standard 1RU rackmount cabinet.

Background

Teletics w*intercom units require one Feature Server or one Feature Server RM per system to operate. The Feature Server RM enables any phone to call any other phone, and for up to 4 specific phones to dial out through the 4 standard POTS phone lines on the front panel. These phone lines are typically provided by either satellite, cellular or land line.

Many portable camp environments require a wireless paging infrastructure as well. The logic required to send one page to all the units on a w*intercom system is another function provided by the Teletics Feature Server RM.

In addition, many other communications features are also added. Examples such as conference calling, individual paging, paging all but the source unit are available through the use of this unit.

The Teletics Feature Server RM also provides 4 FXO ports for use with standard phone lines, which can be provided by a telco, or by a satellite service provider, or cell carrier. There is also a web enabled interface that allows customers with the knowledge of SIP based VoIP systems to expand the functionality of the Feature Server RM through custom programming and adjusting settings.

Installing the Teletics Feature Server RM



The Teletics Feature Server RM can be added on any available RJ-45 port on a w*intercom or WKSU-PA system. This unit should be connected to the system using an Ethernet cable included with the unit.

The only other plug on the unit is for +12VDC. A power adapter is included with the unit for use with the Teletics Feature Server RM.

w*intercom or WKSU-PA programming

w*intercom radios are able to take advantage of all of the functions of the Feature Server RM. There is nothing to set during programming w*intercoms to use the Feature Server RM.

For earlier WKSU-PA model radios to work with the Teletics Feature Server RM, you need to ensure that the units are programmed for paging. You should refer to the Teletics TShop Programming Software manual to get an exact description of how to do this.

A relatively quick way to check if the w*intercom units that you are currently working with are working correctly is to apply power to the w*intercom or WKSU-PA units, and check to see if you have dial tone when you lift the phone receiver.

A w*intercom unit that cannot connect to a Feature Server RM will give you a verbal indication of “Device Not Registered” at the handset.

A WKSU-PA radio that cannot connect to the Feature Server RM on the system will show a fast blinking status LED on the front panel.

Powering Up

The Teletics Feature Server RM does not require any kind of initial programming or setup. Once power is applied, and the Power LED is on, it will need about 60 seconds to initialize. After this time has

elapsed, you should notice that all units register with the unit and any phone that is picked up will give normal dial tone.

w*intercom units check for the presence of a Feature Server RM every 60 seconds. Since all units may be powered up at different times, some w*intercom units may appear to register at different times, but in all cases they should register in about a minute or less.

The four FXO ports provided with the initial Feature Server RM program routes calls in the following manner:

FXO port 1 (Leftmost port)	<->	w*intercom Phone 11
FXO port 2	<->	w*intercom Phone 12
FXO port 3	<->	w*intercom Phone 13
FXO port 4 (Rightmost port)	<->	w*intercom Phone 14

Additional Dialing Features

The Teletics Feature Server RM provides the following additional features to all users on the w*intercom system:

Individual Page

The **Individual Page** feature allows any user on the system to send a page to any other single w*intercom unit in the system.

All But Page

The **All But Page** feature provides paging to the paging port of each of the w*intercom in the system, *except* the paging port on the specified phone.

All Page

The **All Page** feature provides paging to the paging port of each of the w*intercom in the system.

All Call

The **All Call** feature provides the ability to have the phone ports on all of the w*intercoms, except the originating phone, to ring until one is answered.

Conference Call

The **Conference Call** feature provides a simple conference call capability. There are 3 conference rooms provided per system. Users gain access through an interactive voice response (IVR) based conference facility when they dial one of the conference call codes on their phone.

Dial Commands

A standard w*intercom or WKSU-PA allows the following two digit dial sequences:

XX	where XX = 11,12,13 ... 30	Dials Phone 11,12,13...30
YYYYYYY	where YYYYYYY = 7 (or 10) digit phone number	Dials phone number through FXO port on Feature Server RM (available on phones 11, 12, 13, 14 ONLY)

Here are the additional commands that are available to any user on the w*intercom system when a Feature Server RM is present:

*XX	where XX = 11,12,13 ... 30	Individual Page Phone 11,12,13...30
#XX	where XX = 11,12,13 ... 30	Page all BUT Phone 11,12,13...30
*99		Page All (w*intercom stations)
***		Page All (WKSU-PA V2 stations)
99		Ring All until one Phone answers
*5X	where X = 0, 1 or 2	Join Conference "Room" 0,1, or 2

Dial Command Examples

Individual Page - If you are at Phone 12, and you want to send a page message to only the person at Phone 11, you would pick up your phone and dial *11. You will hear a beep indicating you may now talk. You are now connected to the PA speaker located at Phone 11. Remember that anything you now say will come out the PA Speaker located at unit 11 until you hang up. You talk until you are finished and hang up.

All But Page - If you are at Phone 12, and you want to send a page to the entire camp, but you don't want to hear yourself talk, you would pick up your phone and dial #12. You will hear a beep telling you that you can start talking. After the tone, anything you say will be sent out over the PA speakers of all units except 12. You talk until you are finished and hang up.

All Page - If you want to send a page to the entire camp, including the unit you are using, you can pick up any phone and dial *99 and wait for the beep to start talking. You may continue to talk for as long as you like. Again, you talk as long as you like and hang up to stop the page.

All Call - If you want to talk to anyone on the site, you can pick up your phone, dial *99, and all the phones in the system will ring until the first person picks up. You can then talk to whoever answered first and all of the phones will stop ringing.

Conference Call – If you want to set up a conference call, each person needs to know the “conference room” where the meeting is to be held. Options are 0, 1, or 2.

Let’s pick room 0 for example.

Everyone who wishes to join the conference would pick up their phone and dial *50. Each user will hear the conference system prompt them for their name and tell them if the conference has started, and then puts them into the conference.

The Conference Call feature on the Teletics Feature Server RM is designed to be simple and effective. There are no passwords to set up or administration required. Participants are simply announced as they join and leave. Every Conference room is available at any time to any user.

Troubleshooting

Unable to use Teletics Feature Server RM functions

If this occurs, check two things. First, with version 2.0 WKSU-PA units (version 2.0 WKSU-PA units have 8 LEDs and a single volume control on the unit, similar to the picture on the right) , ensure that the WKSUs or WKSU-PA units that are being used with the Teletics Feature Server RM have been programmed to use it. There is a very quick way to check.



WKSU-PA Version 2 radio

Unplug all WKSU-PA units and then plug each one in by itself. If the Status LED on the unit is still flashing after one minute, there is a good likelihood that that particular WKSU-PA unit is programmed for use with a Teletics Feature Server RM. Plug the data cable into the unit, and then into the Teletics Feature Server RM. Check to see that the WKSU-PA unit’s Function LED stops flashing and goes solid. If this happens, the WKSU-PA is now talking to the Teletics Feature Server RM and the additional commands should work.

If you understand computer networking and just want to test if the Teletics Feature Server RM is present on a WKSU-PA network, you may ping it at 1.1.1.200.



For the newer w*intercom units, similar to the photo on the left, if the w*intercom unit provides dial tone when you pick up the receiver, it has correctly registered with a Feature Server RM.

If you understand computer networking and just want to test if the Teletics Feature Server RM is present on the network, you may ping it at 169.254.5.200 for a w*intercom network.

Once the Teletics Feature Server RM has power applied and has initialized, the services are available to any w*intercom that has been programmed to register with the Feature Server RM.

If only some of the w*intercom units register, you should reprogram the units that are not registering and try them again. Teletics TUtil w*intercom software can assist you in determining the settings are incorrect with the radios that are not working correctly with the system under test.

Accessing the Feature Server RM web interface

If you have a network connection available to the Feature Server RM, you can access it using the following URL:

<http://169.254.5.200:3315> (w*intercom Systems)
or <http://1.1.1.200:3315> (WKSU-PA Systems)

The default user id is “admin”, and the default password is “teletics”.

The initial setup provided by Teletics provides a working system with intercom dialing, paging, conference calling and features typically used by our customers. However, if a customer is interested in custom calling features, Teletics can provide this on a project basis, or if the customer wants to learn on how to develop their own additional features, they can do so, by downloading the Teletics “Feature Server Handbook”, available on the Teletics support website.

Teletics Feature Server RM Specifications

Data Connector	Standard RJ-45
FXO Ports	4 x Standard RJ11
Power Required	12 VDC @ 2A
Operating Temperature Range	-20C to +50 C / -5F to +125 F
Dimensions	1U 16.9" x 8.0" x 1.75"
Shipping Weight, including packaging	3.4 kgs / 8.1 lbs

Warranty Statement:

Teletics warrants the Teletics Feature Server RM to be free of defects of materials and workmanship for a period of one year after purchase by the original owner.

Teletics will repair or replace, at its option, any Teletics Feature Server RM unit that fails to perform the task it was designed for under normal use, provided the Teletics Feature Server RM is returned, at the cost of the owner, to Teletics, or one of Teletics Authorized Repair Facilities in the United States or Canada. Items returned for repair must be accompanied with a problem description and original proof of purchase, such as an invoice.

Any operation of the Teletics Feature Server RM outside of specified temperatures, specified input power, environment, or in a manner specified as harmful in this manual will void any warranty. Additionally, any attempted repair or dismantling of any Teletics product, in any way, will void all warranties.

In no event shall Teletics liability exceed the original purchase price of the product from direct, indirect, special, incidental, or consequential damages from the use, or misuse of this product.

Intended Use Statement:

This product is intended for industrial communications use. Installation is to be performed by qualified Technicians.