

# FCC Registration and Requirements

## Instructions to the User:

The Iwatsu Enterprise-CS line of digital telecommunications systems has been registered and approved by the Federal Communications Commission (FCC) for direct connection to your local telephone service. In accordance with FCC rules and regulations regarding telephone equipment, Iwatsu is required to make you aware of your rights and obligations regarding the use of this equipment. In order that we may fulfill our obligations, please take a moment to carefully read the rules and regulations contained herein that apply to you.

## FCC Rules and Regulations

### 1. Notification to the Local Telephone Company

The local Telephone Company may request specific information about the Iwatsu Enterprise-CS system before connection can be made to the local Telephone Company lines. When requested by the Telephone Company, the following information should be provided:

- The FCC Registration Number for all equipment connected to an individual line.
- The largest Ringer Equivalence Number (REN) for each line.
- Information required for compatible operation of the equipment with the Telephone Company communication facilities.

The FCC Registration Number and Ringer Equivalence Number (REN) is printed on the equipment label located on the common equipment cabinet of the system (IX-CME). The largest Ringer Equivalence Number is the sum of the Ringer Equivalence Number (REN) of each FCC registered device that is connected to the same line. The maximum Ringer Equivalence Number that can normally be used without causing faulty operation is 5.0. Check with your local Telephone Company to determine what is the maximum Ringer Equivalence Number for the telephone lines you are using. In order to connect registered terminal equipment to the Telephone Company lines, the terminal equipment must utilize an FCC "standard means of connection", often referred to as a "registered jack". The type of jack utilized on the Iwatsu Enterprise-CS system is identified by a USOC code number. Different code numbers are utilized for the various types of services provided by the Telephone Company that the systems use. When requesting new telephone service, the Telephone Company must be informed of the code number for each type of service. The Iwatsu Enterprise-CS system can be configured as either a Private Branch Exchange (PBX) - Fully Protected, Key Telephone System - Fully Protected or a Multi-Function (Hybrid) System - Fully Protected.

The Iwatsu Enterprise-CS systems FCC - Part 68 registered as a fully protected telephone system. The following information must be provided to the local telephone operating company when requesting service terminating to the Iwatsu Enterprise-CS system:

**LOOP START TRUNK**

Ringer Equivalence No 0.5B  
Service Order Code 9.0F  
Facility Interface Code 02LS2  
Registered Connection RJ21X

**GROUND START TRUNK†**

Ringer Equivalence No 1.0B  
Service Order Code 9.0F  
Facility Interface Code 02GS2  
Registered Connection RJ21X

**CALLER ID TRUNK**

Ringer Equivalence No 0.5B  
Service Order Code 9.0F  
Facility Interface Code 02LS2  
Registered Connection RJ21X, RJ11\*

**E&M TIE LINE CARD**

TYPE 1  
Facility Interface Codes TL31M  
Service Order Code 9.0F  
Registered Connection RJ2GX  
TYPE 2  
Facility Interface Codes TL32M  
Service Order Code 9.0F  
Registered Connection RJ2HX

**T-1 SERVICE (SF)**

Facility Interface Code 04DU9-BN  
Service order Code 6.0P  
Registered Connection RJ48C

**T-1 SERVICE (ESF)**

Facility Interface Code 04DU9-1KN  
Service order Code 6.0P  
Registered Connection RJ48C

**DID TRUNK\***

Facility Interface Codes 02RV2-T  
Ringer Equivalence No. 0.0B  
Service order Code 9.0F  
Registered Connection RJ21X

**OPS LINE CARD**

Facility Interface Codes. OL13C  
Service Order Code 9.0F  
Registered Connection RJ21X

**ISDN BRI CARD**

Facility Interface Codes. 02IS5  
Registered Connection RJ49C#

**ISDN PRI CARD**

Facility Interface Codes. 04DU9-1KN  
Registered Connection RJ49C or RJ48X

**NOTE:**

\* Check with local utility or service provider for type of connection allowed.

† Not available for US:BD6KF10BIWATSU1 registration applications.

# NT1 required.

**2. Restrictions on the Use of Registered Telephone Equipment**

FCC rules governing customer owned telephone equipment specifically exclude the use of the ECS system on public coin telephone (pay phone) lines. The connection to party line service is subject to local state tariffs. Contact your state public utility, public service commission or corporate commission for information on this.

### **3. Incidence of Harm**

If for some reason the ECS system causes harm to the Telephone Company network, the Telephone Company will notify you in advance that temporary discontinuance of service may be required. In the event advance notice is not practical, the Telephone Company will notify you of the interruption of service as soon as possible. Also, the Telephone Company will advise you of your right to file a complaint with the FCC if you believe it is necessary. The Telephone Company may also make changes in its facilities, operations or procedures that could affect the operation of your system. If this occurs, the Telephone Company will provide advance notice in order for you to make the necessary modifications to maintain uninterrupted service.

### **4. Hearing-Aid Compatibility**

The ECS system, utilizing telephone station equipment manufactured by Iwatsu, meets all FCC requirements for hearing-aid compatibility.

### **5. Instruction Regarding the Repair and Refurbishment of Registered Equipment**

Only the manufacturer or its authorized agents are permitted under FCC rules to make other than routine repairs to registered telephone equipment. Repairs made to registered telephone equipment by unauthorized entities is a violation of local state tariffs and will void equipment warranties. Routine repairs are classified typically as lamp replacement, fuse replacement, directory label replacement, etc. All other repairs to your ECS telephone equipment should be performed by Iwatsu Voice Networks. When trouble is experienced on any telephone line that your system is connected to and the trouble is causing harm to the network, the Telephone Company may request that you remove the equipment from the telephone line(s) until the problem has been corrected. To contact Iwatsu Voice Networks for information regarding the repair of your equipment, write or call:

**(972) 929-0242**  
**Iwatsu Voice Networks**  
**8001 Jetstar Drive**  
**Irving, TX 75063**  
**Attn: Repair Department**

### **6. Use of Other FCC Registered Equipment**

Aside from the Ringer Equivalence reporting as explained (above), use of other FCC equipment may provide for specific limitations depending upon the type of equipment. Check the instructions included with such equipment to determine what the limitations are, if any, on the use of such equipment.

### **7. Automatic Dialers**

The ECS system contains features that provide for the automatic dialing of outgoing calls. When programming Emergency Numbers and/or making test calls to Emergency Numbers:

- Remain on the line and briefly explain to the dispatcher the reason for the call.
- Perform such activities during off-peak hours such as early morning or late evening.

### **8. Toll Restriction and Optimized Routing Features**

The ECS system provides both Toll Restriction and Optimized Routing features that may be programmed in your system. The software or programming contained in the ECS system may need to be upgraded to allow user access to the network in order to recognize newly established network area codes and exchange codes as they are placed in service. Failure to upgrade the programming or software (if required) to recognize the new codes as they are established will restrict the user from gaining access to the network and to these codes.

## 9. Direct-Inward-Dialing (DID) Requirements

The ECS system meets all FCC requirements for Direct-Inward-Dialing (DID) service by providing Answer Supervision on incoming DID calls in accordance with FCC regulations. Allowing this equipment to be operated in such a manner as to not provide proper Answer Supervision is a violation of Part 68 of the FCC's rules. The equipment returns proper Answer Supervision to the local telephone exchange when DID calls are: answered by the called station, answered by the attendant, routed to a recorded announcement that can be administered by the system user, routed to a dial prompt (instruction).

## 10. Radio Frequency Emissions

The ECS system is registered with the FCC as a Class A RF Device, pursuant to Part 15 of the FCC rules, that may radiate radio frequency emissions. This equipment complies with the limits for a Class A device. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. In the event that the system causes interference with another device, steps must be taken to reduce the interference, including possible removal of the equipment. While the probability of such an event is remote, consult Iwatsu Voice Networks for further assistance if this occurs.

## 11. Equal Access Requirements

This system is capable of providing users access to interstate providers of operator services through the use of equal access codes. Failure to provide equal access capabilities is a violation of the Telephone Operator Consumer Services Improvement Act of 1990 and Part 68 of the FCC rules.

IWATSU VOICE NETWORKS