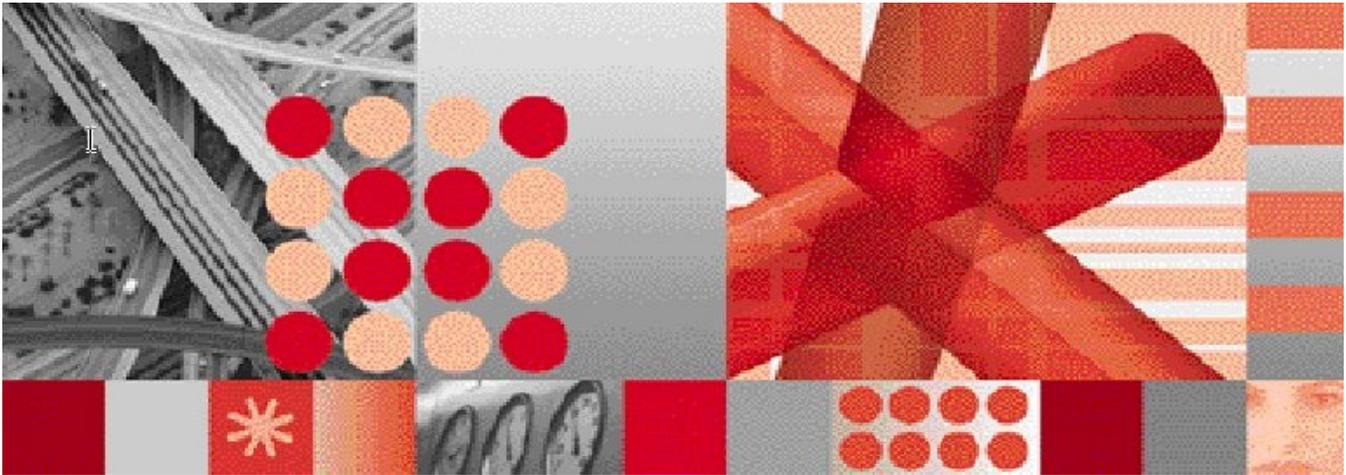




Version 3.5.0.2



**Huawei BSS V900R011C02 Gateway Configuration Distribution Note**

**Note:** Before using this information and the product it supports, read the information in Appendix A Notices and Trademarks on page 13.

This edition applies to IBM® Tivoli® Netcool® Performance Manager for Wireless and to all subsequent releases and modifications until otherwise indicated in new editions.

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# 1 About this Documentation

## 1.1 Audience

The target audience of this document is IBM Performance Manager for Wireless customers. They should be familiar with telecommunication and IT principles and should also have a good understanding of Solaris.

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**IMPORTANT:** Before attempting an installation of Performance Manager for Wireless you are strongly advised to read the release notes and any readme files distributed with your Performance Manager for Wireless software. Readme files and release notes may contain information specific to your installation not contained in this guide. Failure to consult readme files and release notes may result in a corrupt, incomplete or failed installation.

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**Note:** Performance Manager for Wireless Administrators should not, without prior consultation and agreement from IBM, make any changes to the Index Organized tables or database schema. Changes to the Index Organized tables or database schema may result in corruption of data and failure of the Performance Manager for Wireless System. This applies to all releases of Performance Manager for Wireless using all versions of interfaces.

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## 1.2 Required Skills and Knowledge

This guide assumes you are familiar with the following:

- General IT Principles
- Sun Solaris Operating System
- Oracle Database
- Windows operating systems
- Graphical User Interfaces
- Network Operator's OSS and BSS systems architecture

This guide also assumes that you are familiar with your company's network and with procedures for configuring, monitoring, and solving problems on your network.

## 2 Associated Documents

The following documentation accompanies this release:

### 2.1 Referenced Documents

Document Name	Document Description
[Gateways Install Note]	This document describes the steps required to install and run a Gateway.

### 2.2 Other Related Documents

Document Name	Document Description
[Gateway Framework User Guide]	Gateway Framework User Guide describing the management and configuration of the Gateway Framework.
[Generic CSV User Guide]	Generic CSV User Guide describing the management and configuration of the Vendor Gateway.
[3GPP XML User Guide]	3GPP XML User Guide describing the management and configuration of the Vendor Gateway.

## 3 Introduction

You should read this Distribution Note before proceeding to install the Gateway Configuration.

For information on the Gateway Framework, its configuration and use refer to the [Gateway Framework User Guide].

The Gateway Framework and Vendor Gateway are supplied as separate packages. As part of the Vendor Gateway installation process, it must reference a Gateway Framework installation. This separation simplifies the maintenance and version control of multiple Vendor Gateway installations on a single server.

This Distribution Note provides an overview of the release history of the Gateway Configuration.

### 3.1 Vendor Gateway Version

This Gateway Configuration requires the following Vendor Gateway:

- Generic CSV Gateway 3.5.0.3
- 3GPP XML Gateway 3.5.1.2

## 4 Release History

### 4.1 Release 3.5.0.2

Release date 23 December 2010.

Listed below are the enhancements to this release.

#	Description
1.	Support Huawei BSS V900R011C02 iFix release

Listed below are the bugs fixed in this release.

CR #	Description
N/A	N/A

### 4.2 Release 3.5.0.1

Release date 29 October 2010.

Listed below are the enhancements to this release.

#	Description
1.	Support Huawei BSS V900R011C02 release

Listed below are the bugs fixed in this release.

CR #	Description
alm00151379	HUAWEI BSS V900R008 CONTAINS SPECIAL CHARACTER AT CSV FILE.

## 5 Data type and releases supported

Vendor performance data type	Gateway Configuration Release Directory	Supported Vendor Version
Huawei BSS – XML	v900r008_xml	V900R008C01
Huawei BSS – CSV	v900r008_csv	V900R008C01
Huawei BSS – XML/ Huawei BSS – CSV	v900r011c02	V900R011C02/ V900R008C01

### 5.1 Raw input files

The gateway configuration was built against and supports the following performance raw file definition. Differences in file naming may occur due to the configurable nature of some vendor equipment. Under such conditions, the variances are not immediately supported by the gateway configuration.

Scope	Attended Format/Syntax
Input files names to expect	<p>File format:                      A&lt;YYYYMMDD&gt;.&lt;HHMM&gt;&lt;TIMEZONE_OFFSET&gt;-&lt;HHMM&gt;&lt;TIMEZONE_OFFSET&gt;_&lt;BSC_ID&gt;.xml</p> <p>Example:                      A20100929.1600+0200-1700+0200_haoyy_go.xml</p> <p>where</p> <ul style="list-style-type: none"> <li>A – Type</li> <li>20100929 – STARTDATE</li> <li>1600 – STARTTIME</li> <li>+0200 – measCollec_beginTime_GMT_Difference</li> <li>1700 – measCollec_endTime_Time</li> <li>+0200 – measCollec_endTime_GMT_Difference</li> <li>haoyy_go – BSC</li> </ul>

Input file formats to expect	<pre>&lt;?xml version="1.0" encoding="UTF-8"?&gt; &lt;measCollecFile xmlns="http://latest/nmc- omc/cmNrm.doc#measCollec" xmlns:xsi="http://www.w3.org/2001/XMLSchema- instance" xsi:schemaLocation="http://latest/nmc- omc/cmNrm.doc#measCollec schema\pmResultSchedule.xsd"&gt;   &lt;fileHeader fileFormatVersion="32.435 V7.2" vendorName="Huawei"&gt;     &lt;fileSender elementType="BSC6900 GSM"/&gt;     &lt;measCollec beginTime="2010-09-29T16:00:00+02:00"/&gt;   &lt;/fileHeader&gt;   &lt;measData&gt;     &lt;managedElement userLabel="haoyy_go"/&gt;     &lt;measInfo measInfoId="1275072717"&gt;       &lt;granPeriod duration="PT3600S" endTime="2010-09-29T17:00:00+02:00"/&gt;       &lt;repPeriod duration="PT3600S"/&gt;       &lt;measTypes&gt;1279369417 1279369418 1279369419 1279369420 1279369421 1279369422 1279369423 1279369424 1279369425 1279369426 1279369427 1279369428 &lt;/measTypes&gt;       &lt;measValue measObjLdn="haoyy_go/BC:Bearer Channel ID=0, Slot No.=26, Subrack No.=0"&gt;         &lt;measResults&gt;43830 44673 0 7536 79437 1984 4 0.219 10 0.521 0 0 &lt;/measResults&gt;       &lt;/measValue&gt;     &lt;/measInfo&gt;   &lt;/measData&gt;   &lt;fileFooter&gt;     &lt;measCollec endTime="2010-09-29T17:00:00+02:00"/&gt;   &lt;/fileFooter&gt; &lt;/measCollecFile&gt;</pre>
Granularity Period to expect	Extracted from “granPeriod duration” of XML. Its 3600sec/60mins of data.
Equipment/devices to expect data	BSS
Extraction mechanism	N/A
Transfer mechanism	N/A

## 5.2 Hierarchy input files

The gateway configuration was built against and supports the following hierarchy raw file definition. Differences in file naming may occur due to the configurable nature of some vendor equipment. Under such conditions, the variances are not immediately supported by the gateway configuration.

Scope	Attended Format/Syntax
Input files names to expect	N/A
Input file formats to expect	N/A
Equipment/devices to expect data	N/A
Extraction mechanism	N/A
Transfer mechanism	N/A

## 6 Configurations

### 6.1 Parser Engine configuration

Refer to the Generic CSV User Guide and 3GPP XML User Guide for the Engine Configuration for Huawei BSS.

Rule type used:

- XML\_3GPP
- GENERIC\_CSV

#### 6.1.1 NETWORK & REGION mapping

Provision of Network and Region IDs are needed to enable data loading into the related nc tables and the same time to allow Network and Region level report scoping.

As these are user defined fields, LIF output will need to be closed with double quotes. “”.

For unmatched BSC\_ID, it will be defaulted to “UNDEFINED” for NETWORK\_ID and REGION\_ID.

Scope	Attended Format/Syntax																												
Input files names to expect	Network_Region_Mapping.csv																												
Input file formats and content to expect	<p><b>Sample view from spreadsheet /Word/Text file:</b></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th></th> <th style="text-align: center;">A</th> <th style="text-align: center;">B</th> <th style="text-align: center;">C</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td>NETWORK_ID</td> <td>REGION_ID</td> <td>BSC_ID</td> </tr> <tr> <td style="text-align: center;">2</td> <td>PLMN</td> <td>North</td> <td>BscNTB61</td> </tr> <tr> <td style="text-align: center;">3</td> <td>PLMN</td> <td>South</td> <td>BSC_Brno_Technicka_A_60699</td> </tr> <tr> <td style="text-align: center;">4</td> <td>PLMN</td> <td>East</td> <td>BSC_Brno_Svatopetrska_A_60206</td> </tr> <tr> <td style="text-align: center;">5</td> <td>PLMN</td> <td>Central</td> <td>207</td> </tr> <tr> <td style="text-align: center;">6</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		A	B	C	1	NETWORK_ID	REGION_ID	BSC_ID	2	PLMN	North	BscNTB61	3	PLMN	South	BSC_Brno_Technicka_A_60699	4	PLMN	East	BSC_Brno_Svatopetrska_A_60206	5	PLMN	Central	207	6			
	A	B	C																										
1	NETWORK_ID	REGION_ID	BSC_ID																										
2	PLMN	North	BscNTB61																										
3	PLMN	South	BSC_Brno_Technicka_A_60699																										
4	PLMN	East	BSC_Brno_Svatopetrska_A_60206																										
5	PLMN	Central	207																										
6																													

Sample view from UNIX vi :

```
NETWORK_ID,REGION_ID,BSC_ID  
PLMN,North,BscNTB61  
PLMN,South,BSC_Brno_Technicka_A_60699  
PLMN,East,BSC_Brno_Svatopetrska_A_60206  
PLMN,Central,207
```

## 6.2 Post Parser User Configuration

The following rules are configured:

- **PIF\_2\_OUTPUT** – Used to produce final LIF's from the PIF's.

## 6.3 PIF Naming Convention

**Format for Initial PIF:**

<Block name>-#-<Raw Data Filename>-#-<Running Number>-#-I.pif

**Example of Initial PIF filename :**

B67109452-#-A20100929.1600+0200-1700+0200\_haoyy\_go.xml-#-1-#-I-#-P.lif

## 6.4 Time Normalization Support

N/A

## Appendix A Notices and Trademarks

This appendix contains the following:

- Notices
- Trademarks

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