

Avaya Solution & Interoperability Test Lab

Application Notes for InteractCRM Activity Monitor for IC Manager 1.0 with Avaya Interaction Center Release 7.0 - Issue 1.0

Abstract

These Application Notes describe the procedures for configuring InteractCRM Activity Monitor for IC Manager 1.0 to successfully interoperate with Avaya Interaction Center (IC) Release 7.0.

InteractCRM Activity Monitor for IC Manager provides the customer with an efficient way to capture and manage the activity data of Avaya IC Manager and present the data in tabulated reports that can be viewed from a standard web browser.

Information in these Application Notes has been obtained through compliance testing and additional technical discussions. Testing was conducted via the Developer *Connection* Program at the Avaya Solution and Interoperability Test Lab.

1. Introduction

These Application Notes describe the compliance-tested configuration used to validate Avaya Interaction Center Release 7.0 with InteractCRM Activity Monitor for IC Manager 1.0.

Contact centers that have implemented Avaya Interaction Center (IC) as their multi-channel solution rely on Avaya IC Manager to manage the configuration and monitor the health of the Avaya IC system. In large organizations, IC is often implemented across multiple environments, and it is common to have IC Manager installed on multiple machines and accessed by multiple administrators. While this allows for distributed management of the IC system, there is no way for the organization to create a complete and comprehensible audit trail of the activities being performed by the administrators. This can pose a security threat as well as make it difficult to back track changes that could have caused exceptions to occur. Contact center managers running critical customer service operations require a stronger audit and reporting capability of their IC administration functions than what is provided today with IC.

InteractCRM Activity Monitor for IC Manager addresses this requirement by providing a detailed audit trail of the activities being conducted using multiple IC Manager instances running in the customers organization. The solution provides the following benefits:

- **Security against uncertainties** Persist configuration information by providing an audit trail of changes made to the system allowing fallback.
- Exhaustive change tracking Allows the customer to track changes made to the IC system using IC Manager such as settings, configurations and properties.
- **Intuitive user friendly reporting -** All changes can be read and analyzed using user-friendly web reports without having to deal with complicated log files.
- Multi-site multiple session support Supports tracking across multiple simultaneous instances of IC Manager user sessions, making it viable for a multi-site environment. Each instance of IC Manager is tracked by Activity Monitor installed on the same machine.

Figure 1 illustrates the configuration used to verify InteractCRM Activity Monitor for IC Manager interoperability with Avaya Interaction Center. The core servers for Avaya Interaction Center reside on a server running Microsoft Windows Server 2003. Another server running Microsoft SQL Server 2000 stores the IC Repository and the Activity Monitor database. Two administrator desktops are installed with Avaya IC Manager and InteractionCRM Activity Monitor for IC Manager Core Module. The Core Module captures the changes made by IC Manager and stores them in the Activity Monitor database. The Activity Monitor Reporting Module is hosted on the Microsoft Internet Information Server (IIS) web server to provide web reports to users running Microsoft Internet Explorer. All the systems are connected on the customer LAN using the Avaya C364T-PWR Converged Stackable Switch.

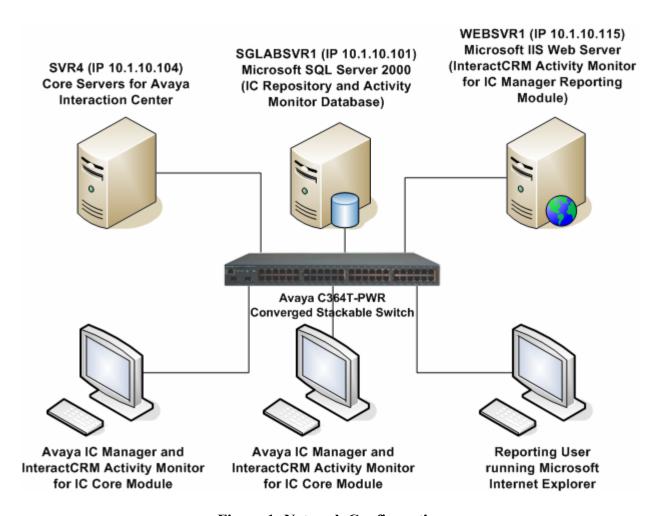


Figure 1: Network Configuration

2. Equipment and Software Validated

The following equipment and software were used for the sample configuration provided:

Equipment	Software
Avaya Interaction Center	Release 7.0 Service Pack 2
Avaya IC Manager	Release 7.0 Service Pack 2
Avaya C364T-PWR Converged Stackable Switch	4.3.12
InteractCRM Activity Monitor for IC Manager	1.0
Microsoft SQL Server 2000	8.00.760 (SP3)
Microsoft Internet Information Services (IIS)	5.0

3. Configure Avaya Interaction Center

It is assumed that Avaya Interaction Center core servers and Avaya IC Manager are installed and running properly. InteractACM Activity Monitor for IC Manager requires read access to the file **ds.ffd** located in the directory **C:\Program Files\Avaya\IC70\etc** on the IC server. This is achieved by configuring the above directory as a shared folder through Windows File Sharing and assigning read access to the users that will run IC Manager and Activity Monitor for IC (see http://support.microsoft.com/kb/324267/EN-US/). Detail steps to configure the shared folder are beyond the scope of these Application Notes. Further configurations required to configure Activity Monitor for IC Manager to work with IC are described in **Section 4**.

4. Configure InteractCRM Activity Monitor for IC Manager

This section describes the installation and configuration of InteractCRM Activity Monitor for IC Manager to interoperate with Avaya IC Manager.

Software prerequisites for Activity Monitor include:

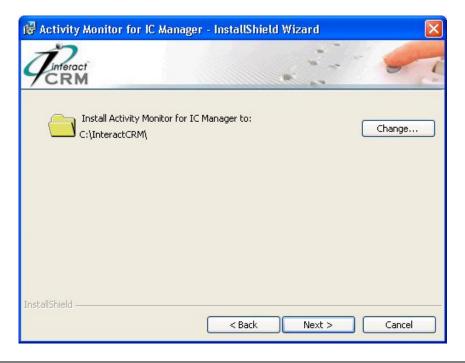
- Microsoft SQL Server 2000 Client tools, Service Pack 3 and above
- Microsoft .NET Framework 1.1
- Access to the **ds.ffd** file in the **C:\Program Files\Avaya\IC70\etc** folder on the Avaya IC server. In this configuration, the folder **C:\Program Files\Avaya** on the IC server is shared using the name **Avaya** with read permissions.

4.1. Install Activity Monitor for IC Manager

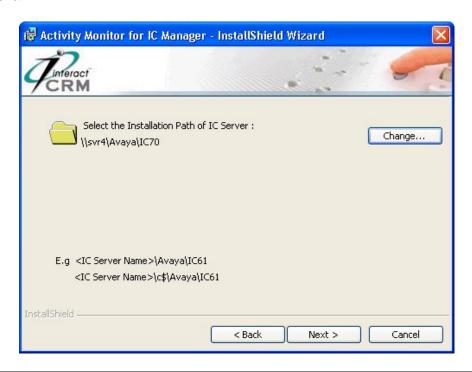


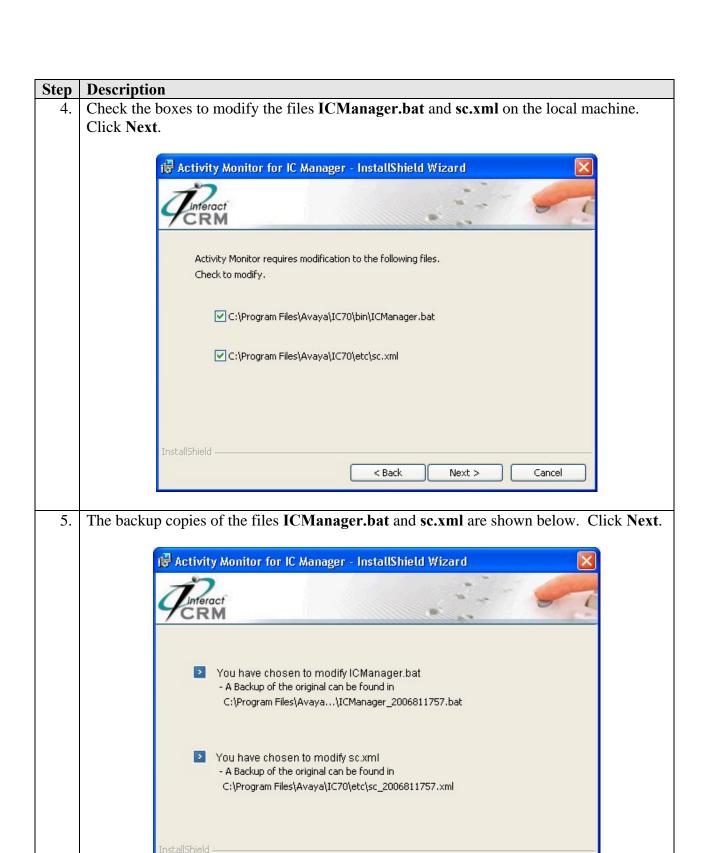


2. Click **Next** to accept the default installation folder for Activity Monitor for IC Manager.



3. Click **Change** to browse to the location of the shared folder **Avaya** on the IC server and click **Ok**. The window is updated with the installation path of IC server as shown below. Click **Next**.





< Back

Next >

Cancel



SQL Server

Select Database Type:

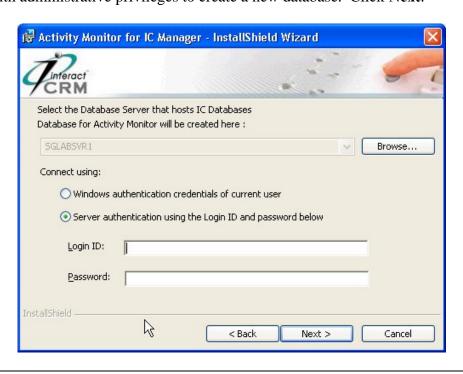
7. Click **Browse** and select the Microsoft SQL Server that will be used to store the database for Activity Monitor for IC Manager. In this configuration, the server name is **SGLABSVR1**. Enter the **Login ID** and **Password** of an account on Microsoft SQL Server with administrative privileges to create a new database. Click **Next**.

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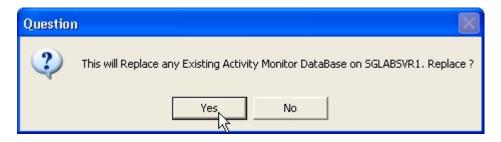
Next >

Cancel

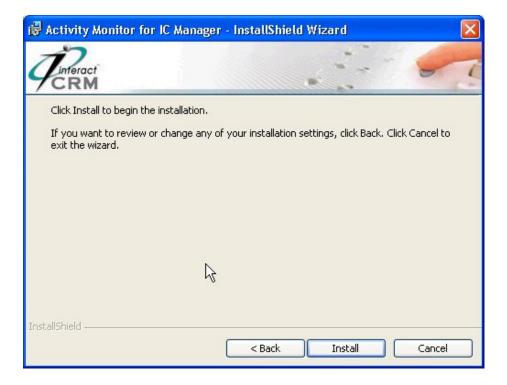


Step Description

8. When installing Activity Monitor for IC Manager for the first time, click **Yes** to create the database. On subsequent installations, click **No** to preserve the existing database.



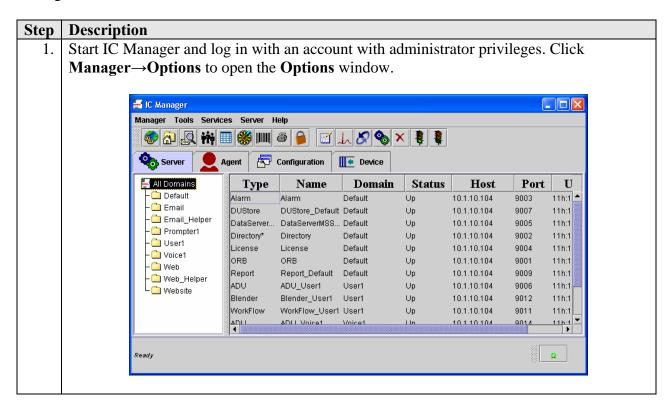
9. Click **Install**. This will begin the copying of files for the installation. At the end of the installation, click **Finished**.

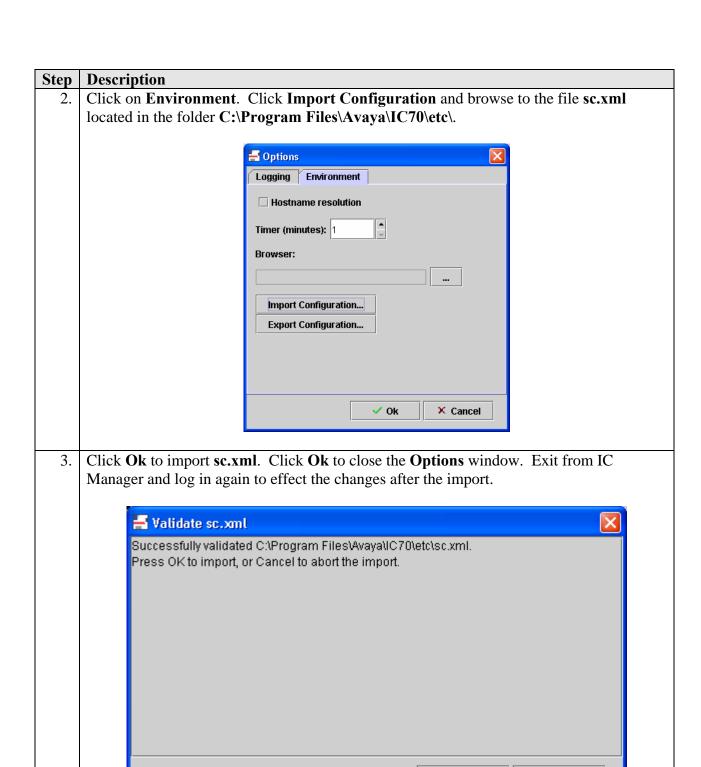


10. To configure the license for Activity Monitor for IC Manager, refer to the InteractCRM installation guide for instructions.

4.2. Configure Activity Monitor for IC Manager

The file **sc.xml** contains the server settings for the Avaya IC system. The file was modified during installation in Section 4.1 to include the additional settings for InteractCRM Activity Monitor for IC Manager. The file is required to be imported into Avaya IC Manager to reflect the changes made to it.

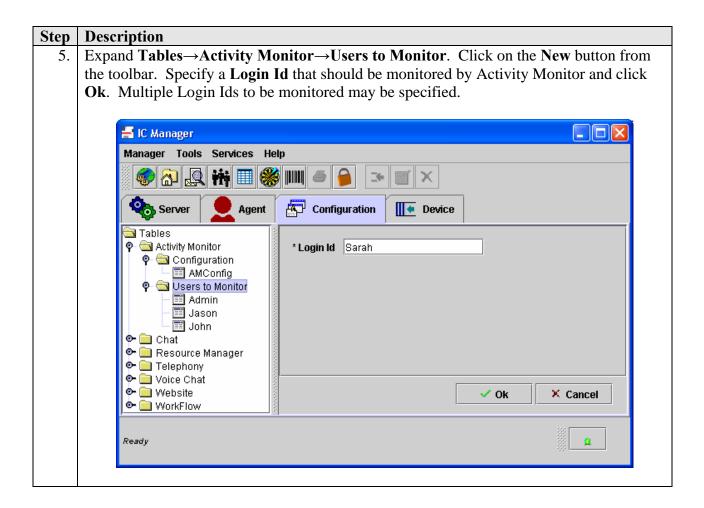




Ok

X Cancel

Description Step Click on the Configuration tab. Expand Tables Activity Monitor Configuration. 4. Click on the New button from the toolbar. Set Config Name to AMConfig and Execute Interval for AM (min) to 15. Click Ok. 🚪 IC Manager Manager Tools Services Help **††** ■ **※** || || *●* Server Configuration Agent ■ Device 🛅 Tables 👇 😋 Activity Monitor * Config Name AMConfig Configuration 🛅 Users to Monitor * Execute Interval for AM (min) | 15 🔻 Chat 💁 🚞 Resource Manager 🗪 🚞 Telephony <mark>• </mark> Voice Chat 🗪 🧰 Website 💁 🧰 WorkFlow Ok × Cancel Ready



5. Interoperability Compliance Testing

The Interoperability compliance testing included feature functionality testing. The feature functionality testing focused on verifying the ability of Activity Monitor for IC Manager to track the changes made to the IC system using IC Manager.

5.1. General Test Approach

The feature functionality test cases were performed manually. Changes were made to the IC system systematically using IC Manager. Two instances of IC Manager were used to make changes concurrently and up to three different Login Ids were used to log in to IC Manager. Activity Monitor for IC Manager reports were then generated and compared with the actual changes performed using IC Manager.

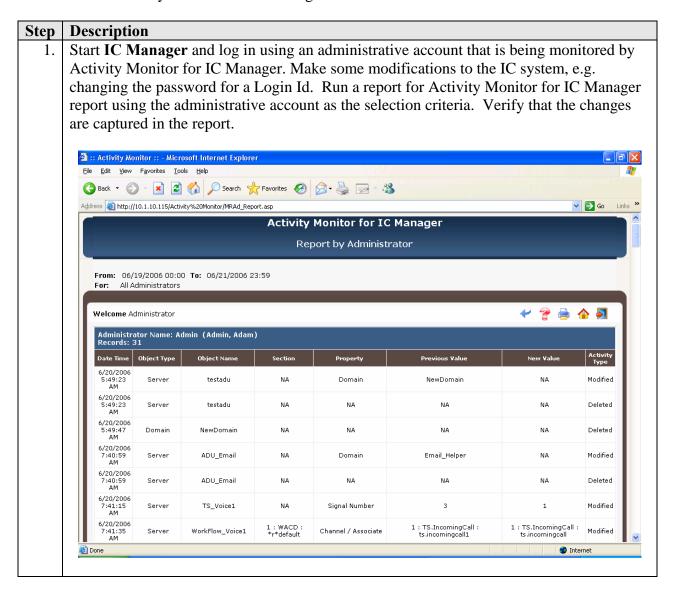
5.2. Test Results

All test cases passed successfully. The test cases included adding, modifying and deleting records such as Agents, Servers, Group properties and Configuration parameters using IC Manager. Activity Monitor for IC Manager was verified to have tracked the change. Changes that were not tracked by Activity Monitor for IC Manager and any expected exceptions were excluded from the test plan. These are documented in detail in the Appendix A of the Activity

Monitor for IC Manager Guide as listed in Section 9 as limitations for Activity Monitor for IC Manager.

6. Verification Steps

This section provides the tests that can be performed to verify proper configuration of InteractCRM Activity Monitor for IC Manager.



7. Support

For technical support on InteractCRM Activity Monitor for IC Manager, contact the InteractCRM Support Team at:

Phone: +91 22 6695 9190
Fax: +91 22 6602 1850

• Email: AMSupport@interactcrm.com

8. Conclusion

These Application Notes describe the configuration steps required for InteractCRM Activity Monitor for IC Manager 1.0 to successfully interoperate with Avaya Interaction Center Release 7.0. All feature functionality test cases were completed successfully.

9. References

The following documents can be found at http://support.avaya.com:

[1] Avaya Interaction Center Release 7.0 Installation and Configuration, 07-300100, Issue 3, July 2005

The following documents are available in the InteractCRM Activity Monitor for IC Manager installation CDROM:

- Activity Monitor for IC Manager Guide
- User Guide for Activity Monitor

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